

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

|                        |   |
|------------------------|---|
| Trade name             | : ShellSol A150                                 |
| Product code           | : Q7493   |
| Registration number EU | : 01-2119463588-24-0002                         |
| Synonyms               | : Hydrocarbons, C10, aromatics, >1% naphthalene |

|        |             |
|--------|-------------|
| EC-No. | : 919-284-0 |
|--------|-------------|

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

|                                   |  |
|-----------------------------------|--|
| Use of the Sub-<br>stance/Mixture | : Industrial Solvent.<br>Please refer to section 16 and/or the annexes for the registered uses under REACH.            |
| Uses advised against              | : This product must not be used in applications other than the above without first seeking the advice of the supplier. |

#### 1.3 Details of the supplier of the safety data sheet

|                                  |   |
|----------------------------------|---|
| Manufacturer/Supplier            | : <b>Shell Chemicals Europe B.V.</b><br>PO Box 2334<br>3000 CH Rotterdam<br>Netherlands |
| Telephone                        | : +31 (0)10 441 5137 / +31 (0)10 441 5191   |
| Telefax                          | : +31 (0)20 716 8316 / +31 (0)20 713 9230   |
| Contact for Safety Data<br>Sheet | : sccmsds@shell.com   |

#### 1.4 Emergency telephone number

SHELL +44 (0) 1235 239 670 (This telephone number is available 24 hours per day, 7 days per week)  
Poison Centers (CAV) eligible for access to information for health emergency response:  
CAV Osp. Bambin Gesù Roma 06 68593726; CAV Policlinico "Umberto I" Roma 06-49978000;  
CAV Policlinico "A. Gemelli" Roma 06 3054343; CAV Milano 02 66101029; CAV Bergamo 800883300;  
CAV Pavia 0382 24444; CAV Verona 800011858; CAV Firenze 055 7947819; CAV Napoli 081 5453333;  
CAV Foggia 800183459.

|                   |   |
|-------------------|---|
| Other information | : SHELLSOL is a trademark owned by Shell Trademark Management B.V. and Shell Brands Inc. and used by affiliates of Shell plc. |
|-------------------|---|

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|         |                |              |                                |
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| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

### SECTION 2: Hazards identification


#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|  |   |
|--|---|
| Aspiration hazard, Category 1  | H304: May be fatal if swallowed and enters airways.           |
| Specific target organ toxicity - single exposure, Category 3, Narcotic effects | H336: May cause drowsiness or dizziness.                      |
| Carcinogenicity, Category 2  | H351: Suspected of causing cancer.                            |
| Long-term (chronic) aquatic hazard, Category 2                                 | H411: Toxic to aquatic life with long lasting effects.        |
| Supplemental Hazard Statements   | EUH066: Repeated exposure may cause skin dryness or cracking. |

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

|                                |   |  |
|--------------------------------|---|--|
| Hazard pictograms              | : |    |
| Signal word                    | : | Danger   |
| Hazard statements              | : | <p>PHYSICAL HAZARDS:</p> <p>Not classified as a physical hazard according to CLP criteria.</p> <p>HEALTH HAZARDS:</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H351 Suspected of causing cancer.</p> <p>ENVIRONMENTAL HAZARDS:</p> <p>H411 Toxic to aquatic life with long lasting effects.</p> |
| Supplemental Hazard Statements | : | EUH066 Repeated exposure may cause skin dryness or cracking.   |
| Precautionary statements       | : | <p><b>Prevention:</b></p> <p>P201 Obtain special instructions before use.</p> <p>P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</p> <p><b>Response:</b></p> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</p> <p>P331 Do NOT induce vomiting.</p>  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

P308 + P313 IF exposed or concerned: Get medical advice/attention.

### Storage:

No precautionary phrases.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Other hazards

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

May form flammable/explosive vapour-air mixture.

This material is a static accumulator.

Even with proper grounding and bonding, this material can still accumulate an electrostatic charge.

If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

#### Components

| Chemical name                                 | CAS-No.<br>EC-No.         | Concentration (% w/w) |
|---|---------------------------|-----------------------|
| Hydrocarbons, C10, aromatics, >1% naphthalene | Not Assigned<br>919-284-0 | < 100                 |

#### Further information

Contains:

| Chemical name | Identification number | Classification   | Concentration (% w/w) |
|---------------|-----------------------|--|-----------------------|
| Naphthalene   | 91-20-3, 202-049-5    | Acute Tox.4; H302<br>Carc.2; H351<br>Aquatic Acute1; H400<br>Aquatic Chronic1; H410                | 0 - 10                |
| Cumene        | 98-82-8, 202-704-5    | Flam. Liq.3; H226<br>Asp. Tox.1; H304<br>STOT SE3; H335<br>Carc.1B; H350<br>Aquatic Chronic2; H411 | 0 - 0,099             |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
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|         |                    |  |          |
|---------|--------------------|--|----------|
| Benzene | 71-43-2, 200-753-7 | Flam. Liq.2; H225<br>Asp. Tox.1; H304<br>Skin Irrit.2; H315<br>Eye Irrit.2; H319<br>Muta.1B; H340<br>Carc.1A; H350<br>STOT RE1; H372<br>Aquatic Chronic3; H412 | 0 - 0,01 |
|---------|--------------------|--|----------|

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Not expected to be a health hazard when used under normal conditions.
- Protection of first-aiders : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
- If inhaled : Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
- In case of skin contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.  
If persistent irritation occurs, obtain medical attention.
- In case of eye contact : Flush eye with copious quantities of water.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If persistent irritation occurs, obtain medical attention.
- If swallowed : Call emergency number for your location / facility.  
If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.  
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Breathing of high vapour concentrations may cause central nervous system (CNS) depression resulting in dizziness, light-headedness, headache, nausea and loss of coordination.  
Continued inhalation may result in unconsciousness and death.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|                |                              |                             |   |
|----------------|------------------------------|-----------------------------|---|
| Version<br>6.7 | Revision Date:<br>28.03.2024 | SDS Number:<br>800001007476 | Date of last issue: 11.03.2024<br>Print Date 04.04.2024 |
|----------------|------------------------------|-----------------------------|---|

No specific hazards under normal use conditions.  
Skin irritation signs and symptoms may include a burning sensation, redness, or swelling.

No specific hazards under normal use conditions.  
Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.  
If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Call a doctor or poison control center for guidance.  
Potential for chemical pneumonitis.  
Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media : Do not use water in a jet.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Clear fire area of all non-emergency personnel.  
Hazardous combustion products may include:  
A complex mixture of airborne solid and liquid particulates and gases (smoke).  
Carbon monoxide.  
Unidentified organic and inorganic compounds.  
Flammable vapours may be present even at temperatures below the flash point.  
The vapour is heavier than air, spreads along the ground and distant ignition is possible.  
Will float and can be reignited on surface water.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : Keep adjacent containers cool by spraying with water.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :  
Observe all relevant local and international regulations.  
Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.  
Local authorities should be advised if significant spillages cannot be contained.  
6.1.1 For non emergency personnel:  
Avoid contact with skin, eyes and clothing.  
Isolate hazard area and deny entry to unnecessary or unprotected personnel.  
Do not breathe fumes, vapour.  
Do not operate electrical equipment.  
6.1.2 For emergency responders:  
Avoid contact with skin, eyes and clothing.  
Isolate hazard area and deny entry to unnecessary or unprotected personnel.  
Do not breathe fumes, vapour.  
Do not operate electrical equipment.

#### 6.2 Environmental precautions

Environmental precautions : Shut off leaks, if possible without personal risks. Remove all possible sources of ignition in the surrounding area. Use appropriate containment to avoid environmental contamination. Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Take precautionary measures against static discharge. Ensure electrical continuity by bonding and grounding (earthing) all equipment.  
Monitor area with combustible gas indicator.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

contaminated soil and dispose of safely.  
For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely

Ventilate contaminated area thoroughly.  
If contamination of site occurs remediation may require specialist advice.

### 6.4 Reference to other sections

For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.,  
For guidance on disposal of spilled material see Section 13 of this Safety Data Sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- |                         |  |
|-------------------------|--|
| Technical measures      | : <ul style="list-style-type: none"><li>Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.</li><li>Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.</li><li>Ensure that all local regulations regarding handling and storage facilities are followed.</li></ul>  |
| Advice on safe handling | : <ul style="list-style-type: none"><li>Avoid inhaling vapour and/or mists.</li><li>Avoid contact with skin, eyes and clothing.</li><li>Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.</li><li>Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.</li><li>Bulk storage tanks should be diked (bunded).</li><li>When using do not eat or drink.</li></ul> <p>The vapour is heavier than air, spreads along the ground and distant ignition is possible.</p>   |
| Product Transfer        | : <ul style="list-style-type: none"><li>Even with proper grounding and bonding, this material can still accumulate an electrostatic charge. If sufficient charge is allowed to accumulate, electrostatic discharge and ignition of flammable air-vapour mixtures can occur. Be aware of handling operations that may give rise to additional hazards that result from the accumulation of static charges. These include but are not limited to pumping (especially turbulent flow), mixing, filtering, splash filling, cleaning and filling of tanks and containers, sampling, switch loading, gauging, vacuum truck</li></ul> |

# SAFETY DATA SHEET

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## ShellSol A150

|                |                              |                             |   |
|----------------|------------------------------|-----------------------------|---|
| Version<br>6.7 | Revision Date:<br>28.03.2024 | SDS Number:<br>800001007476 | Date of last issue: 11.03.2024<br>Print Date 04.04.2024 |
|----------------|------------------------------|-----------------------------|---|

operations, and mechanical movements. These activities may lead to static discharge e.g. spark formation. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge ( $\leq 1$  m/s until fill pipe submerged to twice its diameter, then  $\leq 7$  m/s). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations.

Refer to guidance under Handling section.

Hygiene measures : Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use. Do not ingest. If swallowed, then seek immediate medical assistance.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Further information on storage stability : Storage Temperature: Ambient.

Bulk storage tanks should be diked (bunded).  
Locate tanks away from heat and other sources of ignition.  
Cleaning, inspection and maintenance of storage tanks is a specialist operation, which requires the implementation of strict procedures and precautions.  
Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat.  
Keep away from aerosols, flammables, oxidizing agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment.  
Electrostatic charges will be generated during pumping.  
Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment to reduce the risk.

The vapours in the head space of the storage vessel may lie in the flammable/explosive range and hence may be flammable.  
Packaging material : Suitable material: For containers, or container linings use mild steel, stainless steel., For container paints, use epoxy paint, zinc silicate paint.  
Unsuitable material: Avoid prolonged contact with natural, butyl or nitrile rubbers.

Container Advice : Do not cut, drill, grind, weld or perform similar operations on or near containers.

### 7.3 Specific end use(s)

Specific use(s) : Please refer to section 16 and/or the annexes for the registered uses under REACH.

See additional references that provide safe handling practices



# SAFETY DATA SHEET

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## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

for liquids that are determined to be static accumulators:  
American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or  
National Fire Protection Agency 77 (Recommended Practices on Static Electricity).  
IEC/TS 60079-32-1: Electrostatic hazards, guidance

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

| Components   | CAS-No. | Value type (Form of exposure) | Control parameters                | Basis  |
|--|---------|-------------------------------|-----------------------------------|--|
| Naphthalene  | 91-20-3 | TWA                           | 10 ppm<br>50 mg/m <sup>3</sup>    | 91/322/EEC                                       |
| Further information: Indicative  |         |                               |                                   |  |
| Cumene   | 98-82-8 | STEL                          | 50 ppm<br>250 mg/m <sup>3</sup>   | IT OEL   |
| Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.                       |         |                               |                                   |  |
| Cumene   |         | TWA                           | 10 ppm<br>50 mg/m <sup>3</sup>    | IT OEL   |
| Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin.                       |         |                               |                                   |  |
| Cumene   |         | TWA                           | 10 ppm<br>50 mg/m <sup>3</sup>    | 2019/1831/EU                                     |
| Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., Indicative |         |                               |                                   |  |
| Cumene   |         | STEL                          | 50 ppm<br>250 mg/m <sup>3</sup>   | 2019/1831/EU                                     |
| Further information: A skin notation assigned to the occupational exposure limit value indicates the possibility of significant uptake through the skin., Indicative |         |                               |                                   |  |
| Benzene  | 71-43-2 | TWA                           | 0,25 ppm<br>0,8 mg/m <sup>3</sup> | Shell Internal Standard (SIS) for 8-12 hour TWA. |
| Benzene  |         | STEL                          | 2,5 ppm<br>8 mg/m <sup>3</sup>    | Shell Internal Standard (SIS) for 15 min (STEL)  |

##### Biological occupational exposure limits

No biological limit allocated.

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|----------------|---------|-----------------|--------------------------|-------|
|----------------|---------|-----------------|--------------------------|-------|

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |           |            |                            |                   |
|---|-----------|------------|----------------------------|-------------------|
| Hydrocarbons, C10, aromatics, >1% naphthalene | Workers   | Dermal     | Long-term systemic effects | 12,5 mg/kg bw/day |
| Hydrocarbons, C10, aromatics, >1% naphthalene | Workers   | Inhalation | Long-term systemic effects | 151 mg/m3         |
| Hydrocarbons, C10, aromatics, >1% naphthalene | Consumers | Oral       | Long-term systemic effects | 7,5 mg/kg bw/day  |
| Hydrocarbons, C10, aromatics, >1% naphthalene | Consumers | Inhalation | Long-term systemic effects | 32 mg/m3          |
| Hydrocarbons, C10, aromatics, >1% naphthalene | Consumers | Dermal     | Long-term systemic effects | 7,5 mg/kg bw/day  |
| Naphthalene                                   | Consumers | Oral       | Long-term systemic effects | 4,23 mg/kg        |
| Benzene                                       | Workers   | Inhalation | Long-term systemic effects | 0,8 mg/m3/ 8h     |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name | Environmental Compartment   | Value |
|----------------|---|-------|
| Remarks:       | Substance is a hydrocarbon with a complex, unknown or variable composition. Conventional methods of deriving PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances. |       |

## 8.2 Exposure controls

### Engineering measures

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

Use sealed systems as far as possible.

Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits.

Local exhaust ventilation is recommended.

Firewater monitors and deluge systems are recommended.

Eye washes and showers for emergency use.

Where material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

### General Information:

Always observe good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Define procedures for safe handling and maintenance of controls.

Educate and train workers in the hazards and control measures relevant to normal activities associated with this product.

Ensure appropriate selection, testing and maintenance of equipment used to control exposure, e.g. personal protective equipment, local exhaust ventilation.

Drain down system prior to equipment break-in or maintenance.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

Retain drain downs in sealed storage pending disposal or subsequent recycle.

### Personal protective equipment

Read in conjunction with the Exposure Scenario for your specific use contained in the Annex. The provided information is made in consideration of the PPE directive (Council Directive 89/686/EEC) and the CEN European Committee for Standardisation (CEN) standards.

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye protection : If material is handled such that it could be splashed into eyes, protective eyewear is recommended.  
Approved to EU Standard EN166.

Hand protection

Remarks : Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. Longer term protection: butyl-rubber Nitrile rubber gloves.  
Incidental contact/Splash protection: Nitrile rubber gloves.  
For continuous contact we recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we recommend the same but recognize that suitable gloves offering this level of protection may not be available and in this case a lower breakthrough time maybe acceptable so long as appropriate maintenance and replacement regimes are followed. Glove thickness is not a good predictor of glove resistance to a chemical as it is dependent on the exact composition of the glove material. Glove thickness should be typically greater than 0.35 mm depending on the glove make and model. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturizer is recommended.

Skin and body protection : Skin protection is not required under normal conditions of use.  
For prolonged or repeated exposures use impervious clothing over parts of the body subject to exposure.  
If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to relevant Standard, and provide employee skin care programmes.

Protective clothing approved to EU Standard EN14605.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|                |                              |                             |   |
|----------------|------------------------------|-----------------------------|---|
| Version<br>6.7 | Revision Date:<br>28.03.2024 | SDS Number:<br>800001007476 | Date of last issue: 11.03.2024<br>Print Date 04.04.2024 |
|----------------|------------------------------|-----------------------------|---|

Wear antistatic and flame-retardant clothing, if a local risk assessment deems it so.

Respiratory protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [Type A boiling point > 65°C (149°F)] meeting EN14387.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |  |
|--|--|
| Physical state   | : Liquid.  |
| Colour   | : colourless                                       |
| Odour  | : aromatic   |
| Odour Threshold  | : Data not available                               |
| pour point   | : < 20 °C  |
| Melting point/freezing point   | Data not available                                 |
| Boiling point/boiling range  | : 179 - 214 °C                                     |
| Flammability   |  |
| Flammability (solid, gas)  | : Data not available                               |
| Lower explosion limit and upper explosion limit / flammability limit |  |
| Upper explosion limit / upper flammability limit                     | : 7 %(V)   |
| Lower explosion limit / Lower flammability limit                     | : 0,6 %(V)   |
| Flash point  | : Typical 62 - 65,6 °C<br>Method: ASTM D-93 / PMCC |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
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| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

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|--|---|---|
| Auto-ignition temperature                              | : | 449 - 510 °C<br>Method: ASTM E-659                          |
| Decomposition temperature<br>Decomposition temperature | : | Not applicable  |
| pH   | : | Not applicable  |
| Viscosity<br>Viscosity, dynamic                        | : | Data not available  |
| Viscosity, kinematic                                   | : | Typical 1,2 mm <sup>2</sup> /s (25 °C)<br>Method: ASTM D445 |
| Solubility(ies)<br>Water solubility                    | : | insoluble   |
| Partition coefficient: n-octanol/water                 | : | Data not available  |
| Vapour pressure  | : | 0,09 kPa (20 °C)  |
| Relative density                                       | : | 0,88 - 0,91 (20 °C)<br>Method: ASTM D4052                   |
| Density  | : | Typical 893 kg/m <sup>3</sup> (15 °C)<br>Method: ASTM D4052 |
| Relative vapour density                                | : | 4,8   |
| Particle characteristics<br>Particle size              | : | Data not available  |

### 9.2 Other information

|                      |   |                                     |
|----------------------|---|-------------------------------------|
| Explosive properties | : | Not applicable                      |
| Oxidizing properties | : | Data not available                  |
| Evaporation rate     | : | 1,0<br>Method: ASTM D 3539, nBuAc=1 |
| Conductivity         | : | Low conductivity: < 100 pS/m        |

The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its conductivity is below 100 pS/m and is considered semi-conductive if its conductivity is below 10,000 pS/m., Whether a liquid is nonconductive or semi-conductive, the precautions are the same., A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

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can greatly influence the conductivity of a liquid

Surface tension : Data not available

Molecular weight : Data not available

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

#### 10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions  
Stable under normal conditions of use.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with strong oxidising agents.

#### 10.4 Conditions to avoid

Conditions to avoid : Avoid heat, sparks, open flames and other ignition sources.

In certain circumstances product can ignite due to static electricity.

#### 10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

#### 10.6 Hazardous decomposition products

Hazardous decomposition products are not expected to form during normal storage.  
Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative degradation.

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### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure : Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

##### Acute toxicity

##### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Acute oral toxicity : LD50 (Rat): > 5000 mg/kg

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

Remarks: Low toxicity

Acute inhalation toxicity : LC50 (Rat): > 2 - 20 mg/l  
Remarks: Low toxicity if inhaled.  
Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rabbit): > 2000 mg/kg  
Remarks: Low toxicity

### Skin corrosion/irritation

#### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Remarks : Not irritating to skin.  
Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

### Serious eye damage/eye irritation

#### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Remarks : Not irritating to eye.

### Respiratory or skin sensitisation

#### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Remarks : Not a sensitiser.  
Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

#### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Genotoxicity in vivo : Remarks: Not mutagenic.

Germ cell mutagenicity- Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### Carcinogenicity

#### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Remarks : Limited evidence of carcinogenic effect

Carcinogenicity - Assessment : This product does not meet the criteria for classification in

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

ment

categories 1A/1B.

| Material                                      | GHS/CLP Carcinogenicity Classification |
|---|--|
| Hydrocarbons, C10, aromatics, >1% naphthalene | Carcinogenicity Category 2             |
| Naphthalene                                   | Carcinogenicity Category 2             |
| Cumene  | Carcinogenicity Category 1B            |
| Benzene                                       | Carcinogenicity Category 1A            |

| Material    | Other Carcinogenicity Classification            |
|-------------|---|
| Naphthalene | IARC: Group 2B: Possibly carcinogenic to humans |
| Cumene      | IARC: Group 2B: Possibly carcinogenic to humans |
| Benzene     | IARC: Group 1: Carcinogenic to humans           |

### Reproductive toxicity

#### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Effects on fertility : Remarks: Causes foetotoxicity in animals at doses which are maternally toxic., Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair fertility.

Reproductive toxicity - Assessment : This product does not meet the criteria for classification in categories 1A/1B.

### STOT - single exposure

#### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Remarks : May cause drowsiness and dizziness.  
High concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea.

### STOT - repeated exposure

#### Components:

##### Hydrocarbons, C10, aromatics, >1% naphthalene:

Remarks : Kidney: caused kidney effects in male rats which are not considered relevant to humans



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

### Aspiration toxicity

#### Components:

##### **Hydrocarbons, C10, aromatics, >1% naphthalene:**

Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Product:

Remarks : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

#### Components:

##### **Hydrocarbons, C10, aromatics, >1% naphthalene:**

Remarks : Classifications by other authorities under varying regulatory frameworks may exist.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **Hydrocarbons, C10, aromatics, >1% naphthalene:**

Toxicity to fish : Remarks: LC/EC/IC50 >1 - <=10 mg/l  
Toxic

Toxicity to daphnia and other : Remarks: LC/EC/IC50 >1 - <=10 mg/l  
aquatic invertebrates Toxic

Toxicity to algae/aquatic plants : Remarks: LC/EC/IC50 >1 - <=10 mg/l  
Toxic

Toxicity to microorganisms :  
Remarks: Data not available

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

---

Toxicity to fish (Chronic toxicity) : Remarks: Data not available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Data not available

### 12.2 Persistence and degradability

#### Components:

##### **Hydrocarbons, C10, aromatics, >1% naphthalene:**

Biodegradability : Remarks: Readily biodegradable.  
Oxidises rapidly by photo-chemical reactions in air.

### 12.3 Bioaccumulative potential

#### Components:

##### **Hydrocarbons, C10, aromatics, >1% naphthalene:**

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

### 12.4 Mobility in soil

#### Components:

##### **Hydrocarbons, C10, aromatics, >1% naphthalene:**

Mobility : Remarks: Floats on water.

### 12.5 Results of PBT and vPvB assessment

#### Components:

##### **Hydrocarbons, C10, aromatics, >1% naphthalene:**

Assessment : The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB..

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

Additional ecological information : Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

### Components:

#### **Hydrocarbons, C10, aromatics, >1% naphthalene:**

Additional ecological information : Does not have ozone depletion potential.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Recover or recycle if possible.  
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations.  
Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Do not dispose into the environment, in drains or in water courses.  
Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater contamination.  
Waste arising from a spillage or tank cleaning should be disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

Waste, spills or used product is dangerous waste.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.  
Local regulations may be more stringent than regional or national requirements and must be complied with.

MARPOL - see International Convention for the Prevention of Pollution from Ships (MARPOL 73/78) which provides technical aspects at controlling pollutions from ships.

Contaminated packaging : Drain container thoroughly.  
After draining, vent in a safe place away from sparks and fire.  
Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.  
Send to drum recoverer or metal reclaimer.  
Comply with any local recovery or waste disposal regulations.

Local legislation  
Remarks : For the disposal of waste arising from the product, including empty containers not cleared, follow the Legislative Decree

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

152/06 and subsequent amendments.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |        |
|------|--------|
| ADN  | : 3082 |
| ADR  | : 3082 |
| RID  | : 3082 |
| IMDG | : 3082 |
| IATA | : 3082 |

#### 14.2 UN proper shipping name

|      |  |
|------|--|
| ADN  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Hydrocarbons, C10, aromatics) |
| ADR  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Hydrocarbons, C10, aromatics) |
| RID  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Hydrocarbons, C10, aromatics) |
| IMDG | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Hydrocarbons, C10, aromatics) |
| IATA | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Hydrocarbons, C10, aromatics) |

#### 14.3 Transport hazard class(es)

|      |     |
|------|-----|
| ADN  | : 9 |
| ADR  | : 9 |
| RID  | : 9 |
| IMDG | : 9 |
| IATA | : 9 |

#### 14.4 Packing group

|                              |             |
|------------------------------|-------------|
| ADN                          |             |
| Packing group                | : III       |
| Classification Code          | : M6        |
| Labels                       | : 9 (N2, F) |
| ADR                          |             |
| Packing group                | : III       |
| Classification Code          | : M6        |
| Hazard Identification Number | : 90        |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

Labels : 9

### RID

Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9

### IMDG

Packing group : III  
Labels : 9

### IATA

Packing group : III  
Labels : 9

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

## 14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

**Additional Information** : This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a confined space entry.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

|  |   |
|--|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : Conditions of restriction for the following entries should be considered:<br>Cumene (Number on list 28)<br>Benzene (Number on list 72, 5, 29, 28) |
|--|---|

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|                |                              |                             |   |
|----------------|------------------------------|-----------------------------|---|
| Version<br>6.7 | Revision Date:<br>28.03.2024 | SDS Number:<br>800001007476 | Date of last issue: 11.03.2024<br>Print Date 04.04.2024 |
|----------------|------------------------------|-----------------------------|---|

REACH - List of substances subject to authorisation (Annex XIV) : Product is not subject to Authorisation under REACH.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

### Other regulations:

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

Safeguard of health and safety in the workplaces refer to D.Lgs.81/2008 and subsequent amendments.

For waste disposal refer to D.Lgs.152/2006 and subsequent amendments.

Product is subject to Decree-Law N. 105 of 26 June 2015 on the control of the danger of major accidents involving certain dangerous substances, based on Seveso III directive (2012/18/EU).

The national inventory is based on the CAS number 64742-94-5.

### The components of this product are reported in the following inventories:

DSL : Listed

IECSC : Listed

KECI : Listed

PICCS : Listed

TSCA : Listed

ENCS : Listed

NZIoC : Listed

TCSI : Listed

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Full text of other abbreviations

|              |  |
|--------------|--|
| 2019/1831/EU | : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values |
| 91/322/EEC   | : Europe. Commission Directive 91/322/EEC on establishing  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

---

|                     |  |
|---------------------|--|
| IT OEL              | : indicative limit values  |
| 2019/1831/EU / TWA  | : Italy. List of indicative limit values for professional exposure to chemical agents. |
| 2019/1831/EU / STEL | : Limit Value - eight hours  |
| 91/322/EEC / TWA    | : Short term exposure limit  |
| IT OEL / TWA        | : Limit Value - eight hours  |
| IT OEL / STEL       | : 8 hour exposure limit  |
|                     | : Short term exposure limit  |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

|                   |  |
|-------------------|--|
| Training advice   | : Provide adequate information, instruction and training for operators.  |
| Other information | : For Industry guidance and tools on REACH please visit the CEFIC website at <a href="http://cefic.org/Industry-support">http://cefic.org/Industry-support</a> .<br>The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not considered to be PBT or vPvB. |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

A vertical bar (|) in the left margin indicates an amendment from the previous version.

This product is classified as H304 (May be fatal if swallowed and enters airways). The risk relates to potential for aspiration. The risk arising from aspiration hazard is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific hazard and included within Section 8 of the SDS. An exposure scenario is not presented.

This product is classified as R66 / EUH066 (Repeated exposure may cause skin dryness or cracking). The risk relates to the potential for repeated or prolonged dermal contact. The risk arising from contact is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific hazard and included within Section 8 of the SDS. An exposure scenario is not presented.

Sources of key data used to compile the Safety Data Sheet : The quoted data are from, but not limited to, one or more sources of information (e.g. toxicological data from Shell Health Services, material suppliers' data, CONCAWE, EU IUCLID data base, EC 1272 regulation, etc).

### Identified Uses according to the Use Descriptor System

#### Uses - Worker

Title : Use in laboratories  
- Professional

#### Uses - Worker

Title : Use in laboratories  
- Industrial

#### Uses - Worker

Title : Road and construction applications  
- Professional

#### Uses - Worker

Title : Functional Fluids  
- Professional

#### Uses - Worker

Title : Functional Fluids  
- Industrial

#### Uses - Worker

Title : Use as a fuel



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|                |                              |                             |   |
|----------------|------------------------------|-----------------------------|---|
| Version<br>6.7 | Revision Date:<br>28.03.2024 | SDS Number:<br>800001007476 | Date of last issue: 11.03.2024<br>Print Date 04.04.2024 |
|----------------|------------------------------|-----------------------------|---|

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- Professional

**Uses - Worker**

Title : Use as a fuel  
- Industrial

**Uses - Worker**

Title : Use in Agrochemicals uses  
- Professional

**Uses - Worker**

Title : Use as binders and release agents  
- Professional

**Uses - Worker**

Title : Use as binders and release agents  
- Industrial

**Uses - Worker**

Title : Metal working fluids / rolling oils  
- Professional

**Uses - Worker**

Title : Metal working fluids / rolling oils  
- Industrial

**Uses - Worker**

Title : Lubricants  
- Professional  
High Environmental Release

**Uses - Worker**

Title : Lubricants  
- Professional  
Low Environmental Release

**Uses - Worker**

Title : Lubricants  
- Industrial

**Uses - Worker**

Title : Use in Oil and Gas field drilling and production operations  
- Industrial

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

---

### Uses - Worker

Title : Use in Cleaning Agents  
- Professional

### Uses - Worker

Title : Use in Cleaning Agents  
- Industrial

### Uses - Worker

Title : Uses in Coatings  
- Professional

### Uses - Worker

Title : Uses in Coatings  
- Industrial

### Uses - Worker

Title : Formulation & (re)packing of substances and mixtures  
- Industrial

### Uses - Worker

Title : Manufacture of substance  
- Industrial

### Uses - Worker

Title : Distribution of substance  
- Industrial

### Uses - Worker

Title : Water treatment chemicals  
- Industrial

### Uses - Worker

Title : Water treatment chemicals  
- Professional

### Identified Uses according to the Use Descriptor System

#### Uses - Consumer

Title : Functional Fluids  
- Consumer

#### Uses - Consumer

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

---

|       |   |                             |
|-------|---|-----------------------------|
| Title | : | Use as a fuel<br>- Consumer |
|-------|---|-----------------------------|

### Uses - Consumer

|       |   |   |
|-------|---|---|
| Title | : | Use in Agrochemicals uses<br>- Consumer |
|-------|---|---|

### Uses - Consumer

|       |   |  |
|-------|---|--|
| Title | : | Lubricants<br>- Consumer<br>High Environmental Release |
|-------|---|--|

### Uses - Consumer

|       |   |   |
|-------|---|---|
| Title | : | Lubricants<br>- Consumer<br>Low Environmental Release |
|-------|---|---|

### Uses - Consumer

|       |   |                                      |
|-------|---|--------------------------------------|
| Title | : | Use in Cleaning Agents<br>- Consumer |
|-------|---|--------------------------------------|

### Uses - Consumer

|       |   |                                |
|-------|---|--------------------------------|
| Title | : | Uses in Coatings<br>- Consumer |
|-------|---|--------------------------------|

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
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### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000780</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Use in laboratories- Professional   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 10, PROC 15<br><b>Environmental Release Categories:</b> ERC8a, ESVOC<br>SpERC 8.17.v1 |
| <b>Scope of process</b> | Use of small quantities within laboratory settings, including material transfers and equipment cleaning.  |

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| SECTION 2   | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |         |
| Section 2.1   | Control of Worker Exposure   |         |
| Product Characteristics   |  |         |
| Physical form of product  | Liquid, vapour pressure < 0.5 kPa at STP                                 |         |
| Concentration of the Substance in Mixture/Article   | Covers use of substance/product up to 100% (unless stated differently)., |         |
| Frequency and Duration of Use   |  |         |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |         |
| Other Operational Conditions affecting Exposure   |  |         |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |         |
| Contributing Scenarios  | Risk Management Measures   |         |
| Laboratory activitiesPROC15   | No other specific measures identified.                                   |         |
| CleaningPROC10  | No other specific measures identified.                                   |         |
| Section 2.2   | Control of Environmental Exposure  |         |
| Substance is complex UVCB.  |  |         |
| Predominantly hydrophobic.  |  |         |
| Amounts Used  |  |         |
| Fraction of EU tonnage used in region:  |  | 0,1     |
| Regional use tonnage (tonnes/year):   |  | 0,6     |
| Fraction of Regional tonnage used locally:  |  | 5,0E-04 |
| Annual site tonnage (tonnes/year):  |  | 3,0E-04 |
| Maximum daily site tonnage (kg/day):  |  | 8,2E-04 |
| Frequency and Duration of Use   |  |         |
| Continuous release.   |  |         |
| Emission Days (days/year):  |  | 365     |
| Environmental factors not influenced by risk management   |  |         |
| Local freshwater dilution factor:   |  | 10      |
| Local marine water dilution factor:   |  | 100     |
| Other Operational Conditions affecting Environmental Exposure   |  |         |

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Print Date 04.04.2024

|   |         |
|---|---------|
| Release fraction to air from process (initial release prior to RMM):  | 0,5     |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 0,5     |
| Release fraction to soil from process (initial release prior to RMM):   | 0       |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process re-release estimates used.                           |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 0       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 2,1E-01 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

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| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

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| <b>SECTION 4</b>            | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b> |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

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|-------------------------|---|
| <b>300000000779</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Use in laboratories- Industrial   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 10, PROC 15<br><b>Environmental Release Categories:</b> ERC2, ERC4 |
| <b>Scope of process</b> | Use of the substance within laboratory settings, including material transfers and equipment cleaning.                           |

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|--|--|--------------------------|
| SECTION 2  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |                          |
| Section 2.1  | Control of Worker Exposure   |                          |
| Product Characteristics  |  |                          |
| Physical form of product   | Liquid, vapour pressure < 0.5 kPa at STP                                 |                          |
| Concentration of the Substance in Mixture/Article  | Covers use of substance/product up to 100% (unless stated differently)., |                          |
| Frequency and Duration of Use  |  |                          |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |                          |
| Other Operational Conditions affecting Exposure  |  |                          |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |                          |
| Contributing Scenarios   |  | Risk Management Measures |
| Laboratory activitiesPROC15  | No other specific measures identified.                                   |                          |
| CleaningPROC10   | No other specific measures identified.                                   |                          |
| Section 2.2  | Control of Environmental Exposure  |                          |
| Substance is complex UVCB.   |  |                          |
| Predominantly hydrophobic.   |  |                          |
| Amounts Used   |  |                          |
| Fraction of EU tonnage used in region:   |  | 0,1                      |
| Regional use tonnage (tonnes/year):  |  | 0,6                      |
| Fraction of Regional tonnage used locally:   |  | 1                        |
| Annual site tonnage (tonnes/year):   |  | 0,6                      |
| Maximum daily site tonnage (kg/day):   |  | 30                       |
| Frequency and Duration of Use  |  |                          |
| Continuous release.  |  |                          |
| Emission Days (days/year):   |  | 20                       |
| Environmental factors not influenced by risk management  |  |                          |
| Local freshwater dilution factor:  |  | 10                       |
| Local marine water dilution factor:  |  | 100                      |
| Other Operational Conditions affecting Environmental Exposure  |  |                          |
| Release fraction to air from process (initial release prior to RMM):   |  | 2.5E-02                  |

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Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
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|---|---------|
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 2,0E-02 |
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-04 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process re-release estimates used.                           |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by freshwater sediment.  |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 0       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 1,3E+03 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

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| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
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| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management |  |



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

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### Exposure Scenario - Worker

**300000000789**

| SECTION 1        | EXPOSURE SCENARIO TITLE  |
|------------------|--|
| Title            | Road and construction applications- Professional   |
| Use Descriptor   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13<br><b>Environmental Release Categories:</b> ERC8d, ERC8f, ESVOC SpERC 8.15.v1 |
| Scope of process | Application of surface coatings and binders in road and construction activities, including paving uses, manual mastic and in the application of roofing and water-proofing membranes.      |

| SECTION 2  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES   |
|--|---|
| Section 2.1  | Control of Worker Exposure  |
| <b>Product Characteristics</b>   |   |
| Physical form of product   | Liquid, vapour pressure < 0.5 kPa at STP  |
| Concentration of the Substance in Mixture/Article  | Covers use of substance/product up to 100% (unless stated differently).,  |
| <b>Frequency and Duration of Use</b>   |   |
| Covers daily exposures up to 8 hours (unless stated differently).  |   |
| <b>Other Operational Conditions affecting Exposure</b>   |   |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |   |
| <b>Contributing Scenarios</b>  | <b>Risk Management Measures</b>   |
| Drum/batch transfersNon-dedicated facilityPROC8a   | No other specific measures identified.  |
| Drum/batch transfersDedicated facilityPROC8b   | No other specific measures identified.  |
| Drum/batch transfersDedicated facilityOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC8b                               | Ensure operation is undertaken outdoors.<br>Avoid carrying out activities involving exposure for more than 4 hours  |
| ManualRolling, BrushingPROC10  | No other specific measures identified.  |
| Spraying/ fogging by machine applicationOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC11                             | Ensure operation is undertaken outdoors.<br>Limit the substance content in the mixture to 50 %.<br>Wear a respirator conforming to EN140 with Type A filter or better.<br>Automate activity where possible. |
| Spraying/ fogging by ma-   | Ensure operation is undertaken outdoors.  |

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Print Date 04.04.2024

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| chine applicationPROC11   | Wear a respirator conforming to EN140 with Type A filter or better. |
| Dipping, immersion and pouringPROC13  | No other specific measures identified.                              |
| Equipment cleaning and maintenancePROC8a  | No other specific measures identified.                              |
| Drum and small package fillingPROC9   | No other specific measures identified.                              |
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b>                            |
| Substance is complex UVCB.  |   |
| Predominantly hydrophobic.  |   |
| <b>Amounts Used</b>   |   |
| Fraction of EU tonnage used in region:  | 0,1   |
| Regional use tonnage (tonnes/year):   | 12  |
| Fraction of Regional tonnage used locally:  | 5,0E-04   |
| Annual site tonnage (tonnes/year):  | 6,1E-03   |
| Maximum daily site tonnage (kg/day):  | 1,7E-02   |
| <b>Frequency and Duration of Use</b>  |   |
| Continuous release.   |   |
| Emission Days (days/year):  | 365   |
| <b>Environmental factors not influenced by risk management</b>  |   |
| Local freshwater dilution factor:   | 10  |
| Local marine water dilution factor:   | 100   |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |   |
| Release fraction to air from process (initial release prior to RMM):  | 0,95  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 1,0E-02   |
| Release fraction to soil from process (initial release prior to RMM):   | 4,0E-02   |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |   |
| Common practices vary across sites thus conservative process re-release estimates used.                           |   |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |   |
| Risk from environmental exposure is driven by freshwater.   |   |
| No wastewater treatment required.   |   |
| Treat air emission to provide a typical removal efficiency of (%)   | 0   |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0   |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0   |
| <b>Organisational measures to prevent/limit release from site</b>   |   |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |   |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |   |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6  |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6  |
| Maximum allowable site tonnage (MSafe) based on release following   | 4,6   |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

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Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

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|---|---------|
| total wastewater treatment removal (kg/d)   |         |
| Assumed domestic sewage treatment plant flow (m3/d)   | 4,3E+00 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                        |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations. |         |
| <b>Conditions and measures related to external recovery of waste</b>                                      |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations. |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.  |  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.  |  |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).   |  |

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Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000778</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Functional Fluids- Professional   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 8a, PROC 9, PROC 20<br><b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.13b.v1      |
| <b>Scope of process</b> | Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers. |

| SECTION 2   |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
|---|--|--|--|
| Section 2.1   |  | Control of Worker Exposure   |  |
| Product Characteristics   |  |  |  |
| Physical form of product  |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Sub-<br>stance in Mixture/Article  |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use   |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |  |  |
| Other Operational Conditions affecting Exposure   |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented.                         |  |  |  |
| Contributing Scenarios  |  | Risk Management Measures   |  |
| Drum/batch transfersPROC8a  |  | No other specific measures identified.                                   |  |
| Transfer from/pouring from con-<br>tainersPROC9   |  | No other specific measures identified.                                   |  |
| Filling/ preparation of equipment<br>from drums or contain-<br>ers.PROC9  |  | No other specific measures identified.                                   |  |
| General exposures (closed<br>systems)PROC1PROC2PROC3  |  | No other specific measures identified.                                   |  |
| Operation of equipment contain-<br>ing engine oils and simi-<br>lar.(closed systems)PROC20  |  | No other specific measures identified.                                   |  |
| Operation of equipment contain-<br>ing engine oils and simi-<br>lar.(closed systems)Operation is<br>carried out at elevated tempera-<br>ture (> 20°C above ambient<br>temperature).PROC20 |  | No other specific measures identified.                                   |  |
| Remanufacture of reject arti-   |  | No other specific measures identified.                                   |  |

# SAFETY DATA SHEET

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Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

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| clesPROC9   |  |
| Equipment maintenance-PROC8a  | No other specific measures identified.   |
| Storage.PROC1PROC2  | Store substance within a closed system.  |
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b> |
| Substance is complex UVCB.  |  |
| Predominantly hydrophobic.  |  |
| <b>Amounts Used</b>   |  |
| Fraction of EU tonnage used in region:  | 0,1                                      |
| Regional use tonnage (tonnes/year):   | 3,0                                      |
| Fraction of Regional tonnage used locally:  | 5,0E-04                                  |
| Annual site tonnage (tonnes/year):  | 1,5E-03                                  |
| Maximum daily site tonnage (kg/day):  | 4,1E-03                                  |
| <b>Frequency and Duration of Use</b>  |  |
| Continuous release.   |  |
| Emission Days (days/year):  | 365                                      |
| <b>Environmental factors not influenced by risk management</b>  |  |
| Local freshwater dilution factor:   | 10                                       |
| Local marine water dilution factor:   | 100                                      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |  |
| Release fraction to air from process (initial release prior to RMM):  | 5,0E-02                                  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 2,5E-02                                  |
| Release fraction to soil from process (initial release prior to RMM):   | 2,5E-02                                  |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |  |
| Common practices vary across sites thus conservative process re-release estimates used.                           |  |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |  |
| Risk from environmental exposure is driven by freshwater.   |  |
| No wastewater treatment required.   |  |
| Treat air emission to provide a typical removal efficiency of (%)   | 0  |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0  |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0  |
| <b>Organisational measures to prevent/limit release from site</b>   |  |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |  |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |  |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6                                     |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6                                     |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 1,1                                      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03                                  |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |  |
| External treatment and disposal of waste should comply with applicable local and/or regional                      |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

regulations.

### Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

## SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

## SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000777</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Functional Fluids- Industrial   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9<br><b>Environmental Release Categories:</b> ERC7, ESVOC SpERC 7.13a.v1     |
| <b>Scope of process</b> | Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers. |

| SECTION 2   | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
|---|--|--|
| Section 2.1   | Control of Worker Exposure   |  |
| Product Characteristics   |  |  |
| Physical form of product  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article   | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use   |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |  |
| Other Operational Conditions affecting Exposure   |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |  |
| Contributing Scenarios  | Risk Management Measures   |  |
| Bulk transfers(closed systems)PROC1PROC2  | No other specific measures identified.                                   |  |
| Drum/batch transfersDedicated facilityPROC8b  | No other specific measures identified.                                   |  |
| Filling of articles/equipment(closed systems)PROC9  | No other specific measures identified.                                   |  |
| Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a   | No other specific measures identified.                                   |  |
| General exposures (closed systems)PROC2   | No other specific measures identified.                                   |  |
| General exposures (open systems)PROC4   | No other specific measures identified.                                   |  |
| Remanufacture of reject articlesPROC9   | No other specific measures identified.                                   |  |
| Equipment maintenance-PROC8a  | No other specific measures identified.                                   |  |



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |  |
|---|--|
| Storage.PROC1PROC2  | Store substance within a closed system.  |
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b> |
| Substance is complex UVCB.  |  |
| Predominantly hydrophobic.  |  |
| <b>Amounts Used</b>   |  |
| Fraction of EU tonnage used in region:  | 0,1                                      |
| Regional use tonnage (tonnes/year):   | 3,0                                      |
| Fraction of Regional tonnage used locally:  | 1  |
| Annual site tonnage (tonnes/year):  | 3,0                                      |
| Maximum daily site tonnage (kg/day):  | 150                                      |
| <b>Frequency and Duration of Use</b>  |  |
| Continuous release.   |  |
| Emission Days (days/year):  | 20                                       |
| <b>Environmental factors not influenced by risk management</b>  |  |
| Local freshwater dilution factor:   | 10                                       |
| Local marine water dilution factor:   | 100                                      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |  |
| Release fraction to air from process (initial release prior to RMM):  | 5,0E-03                                  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 3,0E-05                                  |
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-03                                  |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |  |
| Common practices vary across sites thus conservative process re-release estimates used.                           |  |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |  |
| Risk from environmental exposure is driven by freshwater.   |  |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |  |
| No wastewater treatment required.   |  |
| Treat air emission to provide a typical removal efficiency of (%)   | 0  |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0  |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0  |
| <b>Organisational measures to prevent/limit release from site</b>   |  |
| Do not apply industrial sludge to natural soils.  |  |
| Sludge should be incinerated, contained or reclaimed.   |  |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |  |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6                                     |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6                                     |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 3,8E+04                                  |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03                                  |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |  |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

### SECTION 3

#### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

#### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000776</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Use as a fuel- Professional   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16<br><b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.12b.v1 |
| <b>Scope of process</b> | Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.                                       |

|   |  |  |  |
|---|--|--|--|
| SECTION 2   |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
| Section 2.1   |  | Control of Worker Exposure   |  |
| Product Characteristics   |  |  |  |
| Physical form of product  |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article   |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use   |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |  |  |
| Other Operational Conditions affecting Exposure   |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |  |  |
| Contributing Scenarios  |  | Risk Management Measures   |  |
| Bulk transfersDedicated facilityPROC8b  |  | No other specific measures identified.                                   |  |
| Drum/batch transfersDedicated facilityPROC8b  |  | No other specific measures identified.                                   |  |
| Refueling.Dedicated facilityPROC8b  |  | No other specific measures identified.                                   |  |
| General exposures (closed systems)PROC1PROC2PROC3   |  | No other specific measures identified.                                   |  |
| Use as a fuel(closed systems)PROC16   |  | No other specific measures identified.                                   |  |
| Equipment cleaning and maintenancePROC8a  |  | No other specific measures identified.                                   |  |
| Storage.PROC1   |  | Store substance within a closed system.                                  |  |
| Section 2.2   |  | Control of Environmental Exposure  |  |
| Substance is complex UVCB.  |  |  |  |
| Predominantly hydrophobic.  |  |  |  |
| Amounts Used  |  |  |  |
| Fraction of EU tonnage used in region:  |  | 0.1  |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

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|---|---------|
| Regional use tonnage (tonnes/year):   | 0,12    |
| Fraction of Regional tonnage used locally:  | 5,0E-04 |
| Annual site tonnage (tonnes/year):  | 6,2E-05 |
| Maximum daily site tonnage (kg/day):  | 1,7E-04 |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 365     |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 1,0E-04 |
| Release fraction to wastewater from process (initial release prior to RMM):   | 1,0E-05 |
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-05 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>   |         |
| Common practices vary across sites thus conservative process re-release estimates used.   |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>                             |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 0       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)                             | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.  | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.                                     |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)   | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)                                      | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)                                   | 4,4E-02 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>  |         |
| Combustion emissions limited by required exhaust emission controls.<br>Waste combustion emissions considered in regional exposure assessment. |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| This substance is consumed during use and no waste of substance is generated.   |         |

### SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

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### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |  |
|-------------------------|--|
| <b>300000000775</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Use as a fuel- Industrial  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16<br><b>Environmental Release Categories:</b> ERC7, ESVOC SpERC 7.12a.v1 |
| <b>Scope of process</b> | Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.                              |

|   |  |  |  |
|---|--|--|--|
| SECTION 2   |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
| Section 2.1   |  | Control of Worker Exposure   |  |
| Product Characteristics   |  |  |  |
| Physical form of product  |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article   |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use   |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |  |  |
| Other Operational Conditions affecting Exposure   |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |  |  |
| Contributing Scenarios  |  | Risk Management Measures   |  |
| Bulk transfersDedicated facilityPROC8b  |  | No other specific measures identified.                                   |  |
| Drum/batch transfersDedicated facilityPROC8b  |  | No other specific measures identified.                                   |  |
| General exposures (closed systems)PROC1PROC2PROC3   |  | No other specific measures identified.                                   |  |
| Use as a fuel(closed systems)PROC16   |  | No other specific measures identified.                                   |  |
| Equipment cleaning and maintenancePROC8a  |  | No other specific measures identified.                                   |  |
| Storage.PROC1PROC2  |  | Store substance within a closed system.                                  |  |
| Section 2.2   |  | Control of Environmental Exposure  |  |
| Substance is complex UVCB.  |  |  |  |
| Predominantly hydrophobic.  |  |  |  |
| Amounts Used  |  |  |  |
| Fraction of EU tonnage used in region:  |  | 0,1  |  |
| Regional use tonnage (tonnes/year):   |  | 2,5E+03  |  |
| Fraction of Regional tonnage used locally:  |  | 1  |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Annual site tonnage (tonnes/year):  | 2,5E+03 |
| Maximum daily site tonnage (kg/day):  | 2,5E+04 |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 100     |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 5,0E-03 |
| Release fraction to wastewater from process (initial release prior to RMM):   | 1,0E-05 |
| Release fraction to soil from process (initial release prior to RMM):   | 0       |
| <b>Technical conditions and measures at process level (source) to prevent release</b>   |         |
| Common practices vary across sites thus conservative process re-release estimates used.   |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>                             |         |
| Risk from environmental exposure is driven by freshwater sediment.  |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 95      |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)                             | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.  | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.                                     |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)   | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)                                      | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)                                   | 2,7E+06 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>  |         |
| Combustion emissions limited by required exhaust emission controls.<br>Waste combustion emissions considered in regional exposure assessment. |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| This substance is consumed during use and no waste of substance is generated.   |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |  |
|-------------------------|--|
| <b>300000000774</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Use in Agrochemicals uses- Professional  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 4, PROC 8a, PROC 8b, PROC 11, PROC 13<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.11a.v1 |
| <b>Scope of process</b> | Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including equipment clean-downs and disposal.  |

|   |   |  |
|---|---|--|
| SECTION 2   | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES   |  |
| Section 2.1   | Control of Worker Exposure  |  |
| Product Characteristics   |   |  |
| Physical form of product  | Liquid, vapour pressure < 0.5 kPa at STP  |  |
| Concentration of the Substance in Mixture/Article   | Covers use of substance/product up to 100% (unless stated differently).,  |  |
| Frequency and Duration of Use   |   |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |   |  |
| Other Operational Conditions affecting Exposure   |   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |   |  |
| Contributing Scenarios  | Risk Management Measures  |  |
| Transfer from/pouring from containersPROC8b   | No other specific measures identified.  |  |
| Mixing in containers.PROOC4   | No other specific measures identified.  |  |
| Spraying/ fogging by manual applicationPROC11   | Wear a respirator conforming to EN140 with Type A filter or better.   |  |
| Spraying/ fogging by machine applicationPROC11  | Apply within a vented cab supplied with filtered air under positive pressure and with a protection factor of >20. |  |
| Ad hoc manual application via trigger sprays, dipping, etc.PROC13   | No other specific measures identified.  |  |
| Equipment cleaning and maintenancePROC8a  | No other specific measures identified.  |  |
| Storage.PROC1PROC2  | Store substance within a closed system.   |  |
| Section 2.2   | Control of Environmental Exposure   |  |
| Substance is complex UVCB.  |   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Predominantly hydrophobic.  |         |
| <b>Amounts Used</b>   |         |
| Fraction of EU tonnage used in region:  | 0,1     |
| Regional use tonnage (tonnes/year):   | 870     |
| Fraction of Regional tonnage used locally:  | 2,0E-03 |
| Annual site tonnage (tonnes/year):  | 1,7     |
| Maximum daily site tonnage (kg/day):  | 4,8     |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 365     |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 0,9     |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 1,0E-02 |
| Release fraction to soil from process (initial release prior to RMM):   | 9,0E-02 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process re-lease estimates used.                             |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   |         |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.  |         |
| Sludge should be incinerated, contained or reclaimed.   |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 920     |
| Assumed domestic sewage treatment plant flow (m3/d)   | 8,8E+02 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |         |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |  |
|---|--|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b>                                     |
| <b>Section 3.1 - Health</b>   |  |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.   |  |
| <b>Section 3.2 -Environment</b>   |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.  |  |
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |
| <b>Section 4.2 -Environment</b>   |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.  |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.   |  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.   |  |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).  |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000773</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Use as binders and release agents- Professional   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 6, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 14<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.10b.v1 |
| <b>Scope of process</b> | Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.  |

| SECTION 2  |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES   |  |
|--|--|---|--|
| Section 2.1  |  | Control of Worker Exposure  |  |
| Product Characteristics  |  |   |  |
| Physical form of product   |  | Liquid, vapour pressure < 0.5 kPa at STP  |  |
| Concentration of the Substance in Mixture/Article  |  | Covers use of substance/product up to 100% (unless stated differently).,  |  |
| Frequency and Duration of Use  |  |   |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |   |  |
| Other Operational Conditions affecting Exposure  |  |   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |   |  |
| Contributing Scenarios   |  | Risk Management Measures  |  |
| Bulk transfersUse in contained systemsPROC1PROC2PROC3  |  | No other specific measures identified.  |  |
| Drum/batch transfersPROC8b   |  | No other specific measures identified.  |  |
| Mixing operations (closed systems)PROC3  |  | No other specific measures identified.  |  |
| Mixing operations (open systems)PROC4  |  | No other specific measures identified.  |  |
| Mold formingPROC14   |  | No other specific measures identified.  |  |
| Casting operations(open systems)Operation is carried out at elevated temperature (> 20°C above ambient temperature).PROC6                                      |  | Provide extraction ventilation at points where emissions occur.<br>, or:<br>Wear a respirator conforming to EN140 with Type A filter or better. |  |
| SprayingMachinePROC1   |  | Minimise exposure by extracted full enclosure for the operation or equipment.   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |   |
|--|---|
| SprayingManualPROC11   | Carry out in a vented booth or extracted enclosure.<br>, or:<br>Wear a respirator conforming to EN140 with Type A filter or better. |
| ManualRolling, Brush-ingPROC10   | No other specific measures identified.  |
| Storage.PROC1PROC2   | Store substance within a closed system.   |
| <b>Section 2.2      Control of Environmental Exposure</b>  |   |
| Substance is complex UVCB.   |   |
| Predominantly hydrophobic.   |   |
| <b>Amounts Used</b>  |   |
| Fraction of EU tonnage used in region:   | 0,1   |
| Regional use tonnage (tonnes/year):  | 100   |
| Fraction of Regional tonnage used locally:   | 5,0E-04   |
| Annual site tonnage (tonnes/year):   | 5,0E-02   |
| Maximum daily site tonnage (kg/day):   | 0,14  |
| <b>Frequency and Duration of Use</b>   |   |
| Continuous release.  |   |
| Emission Days (days/year):   | 365   |
| <b>Environmental factors not influenced by risk management</b>   |   |
| Local freshwater dilution factor:  | 10  |
| Local marine water dilution factor:  | 100   |
| <b>Other Operational Conditions affecting Environmental Exposure</b>   |   |
| Release fraction to air from process (initial release prior to RMM):   | 0,95  |
| Release fraction to wastewater from process (initial release prior to RMM):  | 2,5E-02   |
| Release fraction to soil from process (initial release prior to RMM):  | 2,5E-02   |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                              |   |
| Common practices vary across sites thus conservative process re-lease estimates used.                              |   |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emis-sions and releases to soil</b> |   |
| Risk from environmental exposure is driven by freshwater.  |   |
| No wastewater treatment required.  |   |
| Treat air emission to provide a typical removal efficiency of (%)  |   |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)  | 0   |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                     | 0   |
| <b>Organisational measures to prevent/limit release from site</b>  |   |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.          |   |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>   |   |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                      | 94,6  |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)           | 94,6  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 35      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.  |  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.  |  |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000772</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Use as binders and release agents- Industrial   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 6, PROC 7, PROC 8b, PROC 10, PROC 13, PROC 14<br><b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.10a.v1 |
| <b>Scope of process</b> | Covers the use as binders and release agents including material transfers, mixing, application (including spraying and brushing), and handling of waste.  |

| SECTION 2  |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES   |  |
|--|--|---|--|
| Section 2.1  |  | Control of Worker Exposure  |  |
| Product Characteristics  |  |   |  |
| Physical form of product   |  | Liquid, vapour pressure < 0.5 kPa at STP  |  |
| Concentration of the Sub-stance in Mixture/Article   |  | Covers use of substance/product up to 100% (unless stated differently).,  |  |
| Frequency and Duration of Use  |  |   |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |   |  |
| Other Operational Conditions affecting Exposure  |  |   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.                     |  |   |  |
| Contributing Scenarios   |  | Risk Management Measures  |  |
| Bulk transfersUse in contained systemsPROC1PROC2PROC3  |  | No other specific measures identified.  |  |
| Drum/batch transfersPROC8b   |  | No other specific measures identified.  |  |
| Mixing operations (closed sys-tems)PROC3   |  | No other specific measures identified.  |  |
| Mixing operations (open sys-tems)PROC4   |  | No other specific measures identified.  |  |
| Mold formingPROC14   |  | No other specific measures identified.  |  |
| Casting operations(open sys-tems)Operation is carried out at elevated temperature (> 20°C above ambient tempera-ture).Aerosol generation due to elevated process temperature-PROC6 |  | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).                      |  |
| SprayingMachinePROC7   |  | Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openinas. |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |  |
|--|--|
| SprayingManualPROC7  | Carry out in a vented booth or extracted enclosure.<br>, or:<br>Provide a good standard of controlled ventilation (10 to 15 air changes per hour).<br>Avoid carrying out activities involving exposure for more than 4 hours |
| ManualRolling, Brush-ingPROC10   | No other specific measures identified.   |
| Dipping, immersion and pouringPROC13   | No other specific measures identified.   |
| Storage.PROC1PROC2   | Store substance within a closed system.  |
| <b>Section 2.2      Control of Environmental Exposure</b>  |  |
| Substance is complex UVCB.   |  |
| Predominantly hydrophobic.   |  |
| <b>Amounts Used</b>  |  |
| Fraction of EU tonnage used in region:   | 0,1  |
| Regional use tonnage (tonnes/year):  | 100  |
| Fraction of Regional tonnage used locally:   | 1  |
| Annual site tonnage (tonnes/year):   | 100  |
| Maximum daily site tonnage (kg/day):   | 5,0E+03  |
| <b>Frequency and Duration of Use</b>   |  |
| Continuous release.  |  |
| Emission Days (days/year):   | 20   |
| <b>Environmental factors not influenced by risk management</b>   |  |
| Local freshwater dilution factor:  | 10   |
| Local marine water dilution factor:  | 100  |
| <b>Other Operational Conditions affecting Environmental Exposure</b>   |  |
| Release fraction to air from process (initial release prior to RMM):   | 1,0  |
| Release fraction to wastewater from process (initial release prior to RMM):  | 3,0E-06  |
| Release fraction to soil from process (initial release prior to RMM):  | 0  |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                              |  |
| Common practices vary across sites thus conservative process re-lease estimates used.                              |  |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emis-sions and releases to soil</b> |  |
| Risk from environmental exposure is driven by freshwater.  |  |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                   |  |
| No wastewater treatment required.  |  |
| Treat air emission to provide a typical removal efficiency of (%)  | 80   |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)  | 0  |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                     | 0  |
| <b>Organisational measures to prevent/limit release from site</b>  |  |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.          |  |



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                               | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)    | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 1,2E+06 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.  |  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.  |  |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000771</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Metal working fluids / rolling oils- Professional   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.7c.v1                             |
| <b>Scope of process</b> | Covers the use in formulated MWFs including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils. |

| SECTION 2  |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES   |  |
|--|--|---|--|
| Section 2.1  |  | Control of Worker Exposure  |  |
| Product Characteristics  |  |   |  |
| Physical form of product   |  | Liquid, vapour pressure < 0.5 kPa at STP  |  |
| Concentration of the Sub-stance in Mixture/Article   |  | Covers use of substance/product up to 100% (unless stated differently).,                      |  |
| Frequency and Duration of Use  |  |   |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |   |  |
| Other Operational Conditions affecting Exposure  |  |   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |   |  |
| Contributing Scenarios   |  | Risk Management Measures  |  |
| General exposures (closed sys-tems)PROC1PROC2PROC3   |  | No other specific measures identified.  |  |
| Bulk transfersPROC8b   |  | No other specific measures identified.  |  |
| Filling/ preparation of equipment from drums or containers.Dedicated facili-tyPROC5PROC8aPROC8bPROC9   |  | No other specific measures identified.  |  |
| Process samplingPROC8b   |  | No other specific measures identified.  |  |
| Metal machining operationsPROC17   |  | Provide a good standard of general or controlled venti-lation (5 to 15 air changes per hour). |  |
| ManualRolling, BrushingPROC10  |  | No other specific measures identified.  |  |
| SprayingPROC11   |  | Avoid carrying out activities involving exposure for more than 1 hour.                        |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |   |
|---|---|
|   | , or:<br>Wear a respirator conforming to EN140 with Type A/P2 filter or better. |
| Treatment by dipping and pouringPROC13  | No other specific measures identified.  |
| Equipment cleaning and maintenanceNon-dedicated facilityPROC8a  | No other specific measures identified.  |
| Equipment cleaning and maintenance-Dedicated facilityPROC8b   | No other specific measures identified.  |
| Storage.PROC1PROC2  | Store substance within a closed system.   |
| <b>Section 2.2 Control of Environmental Exposure</b>  |   |
| Substance is complex UVCB.  |   |
| Predominantly hydrophobic.  |   |
| <b>Amounts Used</b>   |   |
| Fraction of EU tonnage used in region:  | 0,1   |
| Regional use tonnage (tonnes/year):   | 50  |
| Fraction of Regional tonnage used locally:  | 5,0E-04   |
| Annual site tonnage (tonnes/year):  | 2,5E-02   |
| Maximum daily site tonnage (kg/day):  | 6,8E-02   |
| <b>Frequency and Duration of Use</b>  |   |
| Continuous release.   |   |
| Emission Days (days/year):  | 365   |
| <b>Environmental factors not influenced by risk management</b>  |   |
| Local freshwater dilution factor:   | 10  |
| Local marine water dilution factor:   | 100   |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |   |
| Release fraction to air from process (initial release prior to RMM):  | 0,15  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 5,0E-02   |
| Release fraction to soil from process (initial release prior to RMM):   | 5,0E-02   |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |   |
| Common practices vary across sites thus conservative process release estimates used.                              |   |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |   |
| Risk from environmental exposure is driven by freshwater.   |   |
| No wastewater treatment required.   |   |
| Treat air emission to provide a typical removal efficiency of (%)   |   |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0   |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0   |
| <b>Organisational measures to prevent/limit release from site</b>   |   |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |   |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |   |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)    | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 17      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.  |  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.  |  |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

**300000000770**

| SECTION 1        | EXPOSURE SCENARIO TITLE   |
|------------------|---|
| Title            | Metal working fluids / rolling oils- Industrial   |
| Use Descriptor   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17<br><b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.7a.v1   |
| Scope of process | Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils. |

| SECTION 2  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |
|--|--|
| Section 2.1  | Control of Worker Exposure   |
| <b>Product Characteristics</b>   |  |
| Physical form of product   | Liquid, vapour pressure < 0.5 kPa at STP                                 |
| Concentration of the Substance in Mixture/Article  | Covers use of substance/product up to 100% (unless stated differently)., |
| <b>Frequency and Duration of Use</b>   |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |
| <b>Other Operational Conditions affecting Exposure</b>   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |
| <b>Contributing Scenarios</b>  | <b>Risk Management Measures</b>  |

|   |  |
|---|--|
| General exposures (closed systems)PROC1PROC2PROC3                           | No other specific measures identified. |
| General exposures (open systems)PROC4                                       | No other specific measures identified. |
| Bulk transfersPROC8b  | No other specific measures identified. |
| Filling/ preparation of equipment from drums or containers.PROC5PROC8bPROC9 | No other specific measures identified. |
| Process samplingPROC8b  | No other specific measures identified. |
| Metal machining operationsPROC17  | No other specific measures identified. |
| Treatment by dipping and pouringPROC13                                      | No other specific measures identified. |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |   |
|---|---|
| SprayingPROC7   | Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. |
| ManualRolling, BrushingPROC10   | No other specific measures identified.  |
| Automated metal roll-<br>ing/formingUse in contained sys-<br>temsOperation is carried out at<br>elevated temperature (> 20°C<br>above ambient tempera-<br>ture).PROC2 | No other specific measures identified.  |
| Semi-automated metal roll-<br>ing/formingOperation is carried out<br>at elevated temperature (> 20°C<br>above ambient tempera-<br>ture).PROC17                        | Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. |
| Equipment cleaning and mainte-<br>nancePROC8aPROC8b   | No other specific measures identified.  |
| Storage.PROC1PROC2  | Store substance within a closed system.   |

| Section 2.2   | Control of Environmental Exposure |
|---|-----------------------------------|
| Substance is complex UVCB.  |                                   |
| Predominantly hydrophobic.  |                                   |
| <b>Amounts Used</b>   |                                   |
| Fraction of EU tonnage used in region:  | 0,1                               |
| Regional use tonnage (tonnes/year):   | 100                               |
| Fraction of Regional tonnage used locally:  | 1                                 |
| Annual site tonnage (tonnes/year):  | 100                               |
| Maximum daily site tonnage (kg/day):  | 5,0E+03                           |
| <b>Frequency and Duration of Use</b>  |                                   |
| Continuous release.   |                                   |
| Emission Days (days/year):  | 20                                |
| <b>Environmental factors not influenced by risk management</b>  |                                   |
| Local freshwater dilution factor:   | 10                                |
| Local marine water dilution factor:   | 100                               |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |                                   |
| Release fraction to air from process (initial release prior to RMM):  | 2,0E-02                           |
| Release fraction to wastewater from process (initial release prior to RMM):   | 3,0E-05                           |
| Release fraction to soil from process (initial release prior to RMM):   | 0                                 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                                   |                                   |
| Common practices vary across sites thus conservative process re-<br>lease estimates used.                               |                                   |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emis-<br/>sions and releases to soil</b> |                                   |
| Risk from environmental exposure is driven by freshwater sediment.  |                                   |
| Prevent discharge of undissolved substance to or recover from onsite<br>wastewater.                                     |                                   |
| No wastewater treatment required.   |                                   |
| Treat air emission to provide a typical removal efficiency of (%)   | 70                                |
| Treat onsite wastewater (prior to receiving water discharge) to provide   | 0                                 |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| the required removal efficiency of $\geq$ (%)   |         |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.              | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.   |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                               | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)    | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 8,9E+05 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.  |  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

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|                    |
|--------------------|
| or in combination. |
|--------------------|

|  |
|--|
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ). |
|--|



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000769</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Lubricants- ProfessionalHigh Environmental Release  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17, PROC 18, PROC 20<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.6c.v1 |
| <b>Scope of process</b> | Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.                           |

|  |  |
|--|--|
| <b>SECTION 2</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>               |
| <b>Section 2.1</b>   | <b>Control of Worker Exposure</b>  |
| <b>Product Characteristics</b>   |  |
| Physical form of product   | Liquid, vapour pressure < 0.5 kPa at STP                                 |
| Concentration of the Sub-stance in Mixture/Article   | Covers use of substance/product up to 100% (unless stated differently)., |
| <b>Frequency and Duration of Use</b>   |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |
| <b>Other Operational Conditions affecting Exposure</b>   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |
| <b>Contributing Scenarios</b>  | <b>Risk Management Measures</b>  |

|   |   |
|---|---|
| General exposures (closed systems)PROC1PROC2PROC3                                       | No other specific measures identified.  |
| Operation of equipment containing engine oils and similar.PROC20                        | No other specific measures identified.  |
| General exposures (open systems)PROC4   | No other specific measures identified.  |
| Bulk transfersDedicated facilityPROC8b  | No other specific measures identified.  |
| Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b     | No other specific measures identified.  |
| Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a | No other specific measures identified.  |
| Operation and lubrication of high energy open equipmentIndoorPROC17PROC18               | Restrict area of openings to equipment. |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |   |
|--|---|
| Operation and lubrication of high energy open equipmentOut-doorPROC17  | Wear a respirator conforming to EN140 with Type A filter or better.   |
| Maintenance (of larger plant items) and machine set upPROC8b   | No other specific measures identified.  |
| Maintenance (of larger plant items) and machine set upOperation is carried out at elevated temperature (> 20°C above ambient temperature).Dedicated facilityPROC8b | Drain down system prior to equipment opening or maintenance.  |
| Maintenance of small itemsOperation is carried out at elevated temperature (> 20°C above ambient temperature).Non-dedicated facilityPROC8a                         | Drain down system prior to equipment opening or maintenance.  |
| Engine lubricant servicePROC9  | No other specific measures identified.  |
| ManualRolling, BrushingPROC10  | No other specific measures identified.  |
| SprayingPROC11   | Avoid carrying out activities involving exposure for more than 1 hour.<br>, or:<br>Wear a respirator conforming to EN140 with Type A/P2 filter or better. |
| Treatment by dipping and pouringPROC13   | No other specific measures identified.  |
| Storage.PROC1PROC2   | Store substance within a closed system.   |

|   |  |
|---|--|
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b> |
| Substance is complex UVCB.  |  |
| Predominantly hydrophobic.  |  |
| <b>Amounts Used</b>   |  |
| Fraction of EU tonnage used in region:  | 0,1                                      |
| Regional use tonnage (tonnes/year):   | 50                                       |
| Fraction of Regional tonnage used locally:  | 5,0E-04                                  |
| Annual site tonnage (tonnes/year):  | 2,5E-02                                  |
| Maximum daily site tonnage (kg/day):  | 6,8E-02                                  |
| <b>Frequency and Duration of Use</b>  |  |
| Continuous release.   |  |
| Emission Days (days/year):  | 365                                      |
| <b>Environmental factors not influenced by risk management</b>                        |  |
| Local freshwater dilution factor:   | 10                                       |
| Local marine water dilution factor:   | 100                                      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>                  |  |
| Release fraction to air from process (initial release prior to RMM):                  | 0,15                                     |
| Release fraction to wastewater from process (initial release prior to RMM):           | 5,0E-02                                  |
| Release fraction to soil from process (initial release prior to RMM):                 | 5,0E-02                                  |
| <b>Technical conditions and measures at process level (source) to prevent release</b> |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Common practices vary across sites thus conservative process re-lease estimates used.                                 |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emis-sions and releases to soil</b>    |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   |         |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                        | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.             |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)   | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)              | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)           | 17      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                    |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.             |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.             |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

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### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000768</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Lubricants- ProfessionalLow Environmental Release   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17, PROC 18, PROC 20<br><b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.6b.v1 |
| <b>Scope of process</b> | Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.                           |

|  |  |
|--|--|
| <b>SECTION 2</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>               |
| <b>Section 2.1</b>   | <b>Control of Worker Exposure</b>  |
| <b>Product Characteristics</b>   |  |
| Physical form of product   | Liquid, vapour pressure < 0.5 kPa at STP                                 |
| Concentration of the Sub-stance in Mixture/Article   | Covers use of substance/product up to 100% (unless stated differently)., |
| <b>Frequency and Duration of Use</b>   |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |
| <b>Other Operational Conditions affecting Exposure</b>   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |
| <b>Contributing Scenarios</b>  | <b>Risk Management Measures</b>  |

|   |   |
|---|---|
| General exposures (closed systems)PROC1PROC2PROC3                                       | No other specific measures identified.  |
| Operation of equipment containing engine oils and similar.PROC20                        | No other specific measures identified.  |
| General exposures (open systems)PROC4   | No other specific measures identified.  |
| Bulk transfersPROC8b  | No other specific measures identified.  |
| Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b     | No other specific measures identified.  |
| Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a | No other specific measures identified.  |
| Operation and lubrication of high energy open equipmentIndoorPROC17PROC18               | Restrict area of openings to equipment. |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |  |
|--|--|
| Operation and lubrication of high energy open equipmentOut-doorPROC17  | Ensure operation is undertaken outdoors.<br>Avoid carrying out activities involving exposure for more than 4 hours<br>, or:<br>Wear a respirator conforming to EN140 with Type A filter or better. |
| Maintenance (of larger plant items) and machine set upPROC8b   | No other specific measures identified.   |
| Maintenance (of larger plant items) and machine set upOperation is carried out at elevated temperature (> 20°C above ambient temperature).Dedicated facilityPROC8b | Drain down system prior to equipment opening or maintenance.   |
| Maintenance of small itemsOperation is carried out at elevated temperature (> 20°C above ambient temperature).Non-dedicated facilityPROC8a                         | Provide enhanced general ventilation by mechanical means.<br>Avoid carrying out operation for more than 4 hours.   |
| Engine lubricant servicePROC9  | No other specific measures identified.   |
| ManualRolling, BrushingPROC10  | No other specific measures identified.   |
| SprayingPROC11   | Avoid carrying out activities involving exposure for more than 1 hour.<br>, or:<br>Wear a respirator conforming to EN140 with Type A/P2 filter or better.  |
| Treatment by dipping and pouringPROC13   | No other specific measures identified.   |
| Storage.PROC1PROC2   | Store substance within a closed system.  |

| Section 2.2  |  | Control of Environmental Exposure |
|--|--|-----------------------------------|
| Substance is complex UVCB.   |  |                                   |
| Predominantly hydrophobic.   |  |                                   |
| Amounts Used   |  |                                   |
| Fraction of EU tonnage used in region:                               |  | 0,1                               |
| Regional use tonnage (tonnes/year):                                  |  | 50                                |
| Fraction of Regional tonnage used locally:                           |  | 5,0E-04                           |
| Annual site tonnage (tonnes/year):                                   |  | 2,5E-02                           |
| Maximum daily site tonnage (kg/day):                                 |  | 6,8E-02                           |
| Frequency and Duration of Use  |  |                                   |
| Continuous release.  |  |                                   |
| Emission Days (days/year):   |  | 365                               |
| Environmental factors not influenced by risk management              |  |                                   |
| Local freshwater dilution factor:                                    |  | 10                                |
| Local marine water dilution factor:                                  |  | 100                               |
| Other Operational Conditions affecting Environmental Exposure        |  |                                   |
| Release fraction to air from process (initial release prior to RMM): |  | 1,0E-02                           |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 1,0E-02 |
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-02 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process re-release estimates used.                           |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   |         |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 18      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |  |
|-------------------------|--|
| <b>300000000767</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Lubricants- Industrial   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17, PROC 18<br><b>Environmental Release Categories:</b> ERC4, ERC7, ESVOC SpERC 4.6a.v1 |
| <b>Scope of process</b> | Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.       |

|  |  |  |  |
|--|--|--|--|
| SECTION 2  |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
| Section 2.1  |  | Control of Worker Exposure   |  |
| Product Characteristics  |  |  |  |
| Physical form of product   |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article  |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use  |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |  |  |
| Other Operational Conditions affecting Exposure  |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |  |  |
| Contributing Scenarios   |  | Risk Management Measures   |  |
| General exposures (closed systems)PROC1PROC2PROC3  |  | No other specific measures identified.                                   |  |
| General exposures (open systems)PROC4  |  | No other specific measures identified.                                   |  |
| Bulk transfersPROC8b   |  | No other specific measures identified.                                   |  |
| Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a  |  | No other specific measures identified.                                   |  |
| Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b  |  | No other specific measures identified.                                   |  |
| Initial factory fill of equipmentPROC9   |  | No other specific measures identified.                                   |  |
| Operation and lubrication of high energy open equipmentPROC17PROC18  |  | No other specific measures identified.                                   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |   |
|--|---|
| ManualRolling, Brush-ingPROC10   | No other specific measures identified.  |
| Treatment by dipping and pouringPROC13   | No other specific measures identified.  |
| SprayingPROC7  | Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings. |
| Maintenance (of larger plant items) and machine set up-PROC8b  | No other specific measures identified.  |
| Maintenance (of larger plant items) and machine set upOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC8b | Drain down and flush system prior to equipment opening or maintenance.  |
| Maintenance of small itemsPROC8a   | No other specific measures identified.  |
| Remanufacture of reject articlesPROC9  | No other specific measures identified.  |
| Storage.PROC1PROC2   | Store substance within a closed system.   |
| <b>Section 2.2</b>   | <b>Control of Environmental Exposure</b>  |
| Substance is complex UVCB.   |   |
| Predominantly hydrophobic.   |   |
| <b>Amounts Used</b>  |   |
| Fraction of EU tonnage used in region:   | 0,1   |
| Regional use tonnage (tonnes/year):  | 630   |
| Fraction of Regional tonnage used locally:   | 0,16  |
| Annual site tonnage (tonnes/year):   | 100   |
| Maximum daily site tonnage (kg/day):   | 5,0E+03   |
| <b>Frequency and Duration of Use</b>   |   |
| Continuous release.  |   |
| Emission Days (days/year):   | 20  |
| <b>Environmental factors not influenced by risk management</b>   |   |
| Local freshwater dilution factor:  | 10  |
| Local marine water dilution factor:  | 100   |
| <b>Other Operational Conditions affecting Environmental Exposure</b>   |   |
| Release fraction to air from process (initial release prior to RMM):   | 5,0E-03   |
| Release fraction to wastewater from process (initial release prior to RMM):  | 3,0E-05   |
| Release fraction to soil from process (initial release prior to RMM):  | 1,0E-03   |
| <b>Technical conditions and measures at process level (source) to prevent release</b>  |   |
| Common practices vary across sites thus conservative process release estimates used.   |   |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>                                |   |
| Risk from environmental exposure is driven by freshwater sediment.   |   |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.   |   |
| No wastewater treatment required.  |   |
| Treat air emission to provide a typical removal efficiency of (%)  | 70  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                        | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.             |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)   | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)              | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)           | 8,9E+05 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                    |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.             |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.             |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.  |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

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| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination. |
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| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ). |
|--|

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |  |
|-------------------------|--|
| <b>300000000766</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Use in Oil and Gas field drilling and production operations-Industrial   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b<br><b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.5a.v1   |
| <b>Scope of process</b> | Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance. |

|  |  |
|--|--|
| <b>SECTION 2</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>               |
| <b>Section 2.1</b>   | <b>Control of Worker Exposure</b>  |
| <b>Product Characteristics</b>   |  |
| Physical form of product   | Liquid, vapour pressure < 0.5 kPa at STP                                 |
| Concentration of the Substance in Mixture/Article  | Covers use of substance/product up to 100% (unless stated differently)., |
| <b>Frequency and Duration of Use</b>   |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |
| <b>Other Operational Conditions affecting Exposure</b>   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |
| <b>Contributing Scenarios</b>  | <b>Risk Management Measures</b>  |
| Bulk transfersDedicated facilityPROC8b   | No other specific measures identified.                                   |
| Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b  | No other specific measures identified.                                   |
| Drilling mud (re-)formulationPROC3   | No other specific measures identified.                                   |
| Drill floor operationsPROC4  | No other specific measures identified.                                   |
| Operation of solids filtering equipment - vapour exposuresPROC4  | No other specific measures identified.                                   |
| Cleaning of solids filtering equipmentPROC8a   | No other specific measures identified.                                   |
| Treatment and disposal of filtered solidsPROC3   | No other specific measures identified.                                   |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |  |
|---|--|
| Process samplingPROC3                                 | No other specific measures identified.   |
| General exposures (closed systems)PROC1               | No other specific measures identified.   |
| Pouring from small containersPROC8a                   | No other specific measures identified.   |
| General exposures (open systems)PROC4                 | No other specific measures identified.   |
| Equipment cleaning and maintenancePROC8a              | No other specific measures identified.   |
| Storage.PROC1PROC2                                    | Store substance within a closed system.  |
| <b>Section 2.2</b>                                    | <b>Control of Environmental Exposure</b> |
| No exposure assessment presented for the environment. |  |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|   |
|---|
| <b>Section 3.2 -Environment</b>   |
| No exposure assessment presented for the environment.   |
| Quantitative exposure and risk assessment not possible due to lack of emissions to aquatic environment. |
| Qualitative approach used to conclude safe use.   |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|   |
|---|
| <b>Section 4.2 -Environment</b>                       |
| No exposure assessment presented for the environment. |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000765</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Use in Cleaning Agents- Professional  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.4b.v1  |
| <b>Scope of process</b> | Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping automated and by hand). |

|  |   |
|--|---|
| <b>SECTION 2</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>              |
| <b>Section 2.1</b>   | <b>Control of Worker Exposure</b>                                       |
| <b>Product Characteristics</b>   |   |
| Physical form of product   | Liquid, vapour pressure < 0.5 kPa at STP                                |
| Concentration of the Substance in Mixture/Article  | Covers use of substance/product up to 100% (unless stated differently). |
| <b>Frequency and Duration of Use</b>   |   |
| Covers daily exposures up to 8 hours (unless stated differently).  |   |
| <b>Other Operational Conditions affecting Exposure</b>   |   |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |   |
| <b>Contributing Scenarios</b>  | <b>Risk Management Measures</b>   |

|  |  |
|--|--|
| Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b                    | No other specific measures identified. |
| Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a                | No other specific measures identified. |
| Automated process with (semi) closed systems.Use in contained systemsPROC2                             | No other specific measures identified. |
| Automated process with (semi) closed systems.Drum/batch transfersUse in contained systemsPROC3         | No other specific measures identified. |
| Semi Automated process. (e.g.: Semi automatic application of floor care and maintenance products)PROC4 | No other specific measures identified. |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |  |
|--|--|
| ManualSurfacesCleaningDipping, immersion and pouringPROC13                         | No other specific measures identified.   |
| Cleaning with low-pressure washersRolling, Brushingno sprayingPROC10               | No other specific measures identified.   |
| Cleaning with high pressure washersSprayingIndoorPROC11                            | Limit the substance content in the product to 5 %.<br>, or:<br>Wear a respirator conforming to EN140 with Type A filter or better. |
| Cleaning with high pressure washersSprayingOutdoorPROC11                           | Limit the substance content in the product to 5 %.<br>, or:<br>Wear a respirator conforming to EN140 with Type A filter or better. |
| ManualSurfacesCleaningPROC10   | No other specific measures identified.   |
| Ad hoc manual application via trigger sprays, dipping, etc.Rolling, BrushingPROC10 | No other specific measures identified.   |
| Cleaning of medical devicesPROC4   | No other specific measures identified.   |
| Storage.PROC1  | Store substance within a closed system.  |

| Section 2.2   | Control of Environmental Exposure |
|---|-----------------------------------|
| Substance is complex UVCB.  |                                   |
| Predominantly hydrophobic.  |                                   |
| <b>Amounts Used</b>   |                                   |
| Fraction of EU tonnage used in region:  | 0,1                               |
| Regional use tonnage (tonnes/year):   | 14                                |
| Fraction of Regional tonnage used locally:  | 5,0E-04                           |
| Annual site tonnage (tonnes/year):  | 7,1E-03                           |
| Maximum daily site tonnage (kg/day):  | 1,9E-02                           |
| <b>Frequency and Duration of Use</b>  |                                   |
| Continuous release.   |                                   |
| Emission Days (days/year):  | 365                               |
| <b>Environmental factors not influenced by risk management</b>  |                                   |
| Local freshwater dilution factor:   | 10                                |
| Local marine water dilution factor:   | 100                               |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |                                   |
| Release fraction to air from process (initial release prior to RMM):  | 2,0E-02                           |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 1,0E-06                           |
| Release fraction to soil from process (initial release prior to RMM):   | 0                                 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |                                   |
| Common practices vary across sites thus conservative process release estimates used.                              |                                   |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |                                   |
| Risk from environmental exposure is driven by freshwater.   |                                   |
| No wastewater treatment required.   |                                   |



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Treat air emission to provide a typical removal efficiency of (%)   | 0       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                        | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.             |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)   | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)              | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)           | 5,4     |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                    |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.             |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.             |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technolo-  |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

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| gies, either alone or in combination.  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.                          |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ). |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000764</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Use in Cleaning Agents- Industrial  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13<br><b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.4a.v1  |
| <b>Scope of process</b> | Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance. |

| SECTION 2  |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
|--|--|--|--|
| Section 2.1  |  | Control of Worker Exposure   |  |
| Product Characteristics  |  |  |  |
| Physical form of product   |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article  |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use  |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |  |  |
| Other Operational Conditions affecting Exposure  |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |  |  |
| Contributing Scenarios   |  | Risk Management Measures   |  |
| Bulk transfersPROC8a   |  | No other specific measures identified.                                   |  |
| Automated process with (semi) closed systems.Use in contained systemsPROC2   |  | No other specific measures identified.                                   |  |
| Automated process with (semi) closed systems.Drum/batch transfersUse in contained batch processesPROC3   |  | No other specific measures identified.                                   |  |
| Application of cleaning products in closed systemsPROC2  |  | No other specific measures identified.                                   |  |
| Filling/ preparation of equipment from drums or containers.PROC8b  |  | No other specific measures identified.                                   |  |
| Use in contained batch processesPROC4  |  | No other specific measures identified.                                   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |  |
|--|--|
| Degreasing small objects in cleaning stationPROC13 | No other specific measures identified.   |
| Cleaning with low-pressure washersPROC10           | No other specific measures identified.   |
| Cleaning with high pressure washersPROC7           | Limit the substance content in the product to 1 %.<br>, or:<br>Avoid carrying out operation for more than 1 hour.<br>, alternatively:<br>Wear a respirator conforming to EN140 with Type A filter or better. |
| ManualSurfacesCleaningPROC10                       | No other specific measures identified.   |
| Storage.PROC1                                      | Store substance within a closed system.  |

| Section 2.2      Control of Environmental Exposure  |         |
|---|---------|
| Substance is complex UVCB.  |         |
| Predominantly hydrophobic.  |         |
| <b>Amounts Used</b>   |         |
| Fraction of EU tonnage used in region:  | 0,1     |
| Regional use tonnage (tonnes/year):   | 240     |
| Fraction of Regional tonnage used locally:  | 0,41    |
| Annual site tonnage (tonnes/year):  | 100     |
| Maximum daily site tonnage (kg/day):  | 5,0E+03 |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 20      |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 1,0     |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 3,0E-06 |
| Release fraction to soil from process (initial release prior to RMM):   | 0       |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process release estimates used.                              |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 70      |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.  |         |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

Sludge should be incinerated, contained or reclaimed.

### Conditions and Measures related to municipal sewage treatment plant

|   |      |
|---|------|
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 94,6 |
|---|------|

|  |      |
|--|------|
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 94,6 |
|--|------|

|   |         |
|---|---------|
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 1,2E+06 |
|---|---------|

|   |         |
|---|---------|
| Assumed domestic sewage treatment plant flow (m3/d) | 2,0E+03 |
|---|---------|

### Conditions and Measures related to external treatment of waste for disposal

External treatment and disposal of waste should comply with applicable local and/or regional regulations.

### Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

## SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

## SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |  |
|-------------------------|--|
| <b>300000000763</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Uses in Coatings- Professional   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.3b.v1   |
| <b>Scope of process</b> | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities. |

| SECTION 2   |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
|---|--|--|--|
| Section 2.1   |  | Control of Worker Exposure   |  |
| Product Characteristics   |  |  |  |
| Physical form of product  |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article   |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use   |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |  |  |
| Other Operational Conditions affecting Exposure   |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |  |  |
| Contributing Scenarios  |  | Risk Management Measures   |  |
| General exposures (closed systems)PROC1   |  | No other specific measures identified.                                   |  |
| Filling/ preparation of equipment from drums or containers.Use in contained systemsPROC2  |  | No other specific measures identified.                                   |  |
| General exposures (closed systems)Use in contained systemsPROC2   |  | No other specific measures identified.                                   |  |
| Preparation of material for applicationUse in contained batch processesPROC3  |  | No other specific measures identified.                                   |  |
| Film formation - air dryingPROC4  |  | No other specific measures identified.                                   |  |
| Preparation of material for applicationPROC5  |  | No other specific measures identified.                                   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |   |
|--|---|
| Material transfersDrum/batch transfersNon-dedicated facilityPROC8aPROC8b | No other specific measures identified.  |
| Roller, spreader, flow applicationPROC10                                 | No other specific measures identified.  |
| ManualSprayingIndoorPROC11   | Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).<br>Limit the substance content in the mixture to 50 %.<br>, or:<br>Wear a respirator conforming to EN140 with Type A filter or better.                       |
| ManualSprayingOutdoorPROC11  | Ensure operation is undertaken outdoors.<br>Limit the substance content in the mixture to 50 %.<br>Avoid carrying out activities involving exposure for more than 4 hours<br>, or:<br>Wear a respirator conforming to EN140 with Type A filter or better. |
| Dipping, immersion and pouringPROC13                                     | No other specific measures identified.  |
| Laboratory activitiesPROC15  | No other specific measures identified.  |
| Hand application - fingerpaints, pastels, adhesivesIndoorPROC19          | Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).   |
| Hand application - fingerpaints, pastels, adhesivesOutdoorPROC19         | Ensure operation is undertaken outdoors.  |
| Storage.PROC1  | Store substance within a closed system.   |

### Section 2.2

### Control of Environmental Exposure

Substance is complex UVCB.

Predominantly hydrophobic.

#### Amounts Used

Fraction of EU tonnage used in region:

0,1

Regional use tonnage (tonnes/year):

110

Fraction of Regional tonnage used locally:

5,0E-04

Annual site tonnage (tonnes/year):

5,4E-02

Maximum daily site tonnage (kg/day):

0,15

#### Frequency and Duration of Use

Continuous release.

Emission Days (days/year):

365

#### Environmental factors not influenced by risk management

Local freshwater dilution factor:

10

Local marine water dilution factor:

100

#### Other Operational Conditions affecting Environmental Exposure

Release fraction to air from process (initial release prior to RMM):

0,98

Release fraction to wastewater from process (initial release prior to RMM):

1,0E-02

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-02 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process release estimates used.                              |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| No wastewater treatment required.   |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 0       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0       |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 4,0E+01 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users |  |



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

should ensure that risks are managed to at least equivalent levels.

### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |  |
|-------------------------|--|
| <b>300000000762</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Uses in Coatings- Industrial   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 14, PROC 15<br><b>Environmental Release Categories:</b> ERC4, ESVOC SpERC 4.3a.v1   |
| <b>Scope of process</b> | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities. |

| SECTION 2   |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
|---|--|--|--|
| Section 2.1   |  | Control of Worker Exposure   |  |
| Product Characteristics   |  |  |  |
| Physical form of product  |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article   |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use   |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |  |  |
| Other Operational Conditions affecting Exposure   |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented.       |  |  |  |
| Contributing Scenarios  |  | Risk Management Measures   |  |
| General exposures (closed systems)PROC1   |  | No other specific measures identified.                                   |  |
| General exposures (closed systems)with sample collectionUse in contained systemsPROC2   |  | No other specific measures identified.                                   |  |
| Film formation - force drying, stoving and other technologies.(closed systems)Operation is carried out at elevated temperature (> 20°C above ambient temperature).PROC2 |  | No other specific measures identified.                                   |  |
| Mixing operations (closed systems)Use in contained  |  | No other specific measures identified.                                   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |  |
|---|--|
| batch processesPROC3  |  |
| Film formation - air dryingPROC4  | No other specific measures identified.   |
| Preparation of material for applicationMixing operations (open systems)PROC5                      | No other specific measures identified.   |
| Spraying (automatic/robotic)PROC7   | Carry out in a vented booth provided with laminar airflow.   |
| ManualSprayingPROC7   | Carry out in a vented booth provided with laminar airflow.<br>, or:<br>Wear a respirator conforming to EN140 with Type A filter or better. |
| Material transfersNon-dedicated facilityPROC8a  | No other specific measures identified.   |
| Material transfersDedicated facilityPROC8b  | No other specific measures identified.   |
| Roller, spreader, flow applicationPROC10  | No other specific measures identified.   |
| Dipping, immersion and pouringPROC13  | No other specific measures identified.   |
| Laboratory activitiesPROC15   | No other specific measures identified.   |
| Material transfersDrum/batch transfersTransfer from/pouring from containersPROC9                  | No other specific measures identified.   |
| Production or preparation or articles by tableting, compression, extrusion or pelletisationPROC14 | Store substance within a closed system.  |
| Equipment cleaning and maintenancePROC8a  | No other specific measures identified.   |
| Storage.PROC1   | Store substance within a closed system.  |
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b>   |
| Substance is complex UVCB.  |  |
| Predominantly hydrophobic.  |  |
| <b>Amounts Used</b>   |  |
| Fraction of EU tonnage used in region:  | 0,1  |
| Regional use tonnage (tonnes/year):   | 370  |
| Fraction of Regional tonnage used locally:  | 1  |
| Annual site tonnage (tonnes/year):  | 370  |
| Maximum daily site tonnage (kg/day):  | 1,9E+04  |
| <b>Frequency and Duration of Use</b>  |  |
| Continuous release.   |  |
| Emission Days (days/year):  | 20   |
| <b>Environmental factors not influenced by risk management</b>                                    |  |
| Local freshwater dilution factor:   | 10   |
| Local marine water dilution factor:   | 100  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 9,8E-01 |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 7,0E-04 |
| Release fraction to soil from process (initial release prior to RMM):   | 0       |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process re-release estimates used.                           |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by freshwater sediment.  |         |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |         |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 90      |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 89,1    |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 3,8E+04 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |         |

|   |                            |
|---|----------------------------|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>   |                            |
| The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. |                            |

|  |
|--|
| <b>Section 3.2 -Environment</b>  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

| SECTION 4   | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
|---|---|
| <b>Section 4.1 - Health</b>   |   |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |   |
| <b>Section 4.2 -Environment</b>   |   |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.  |   |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.   |   |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.   |   |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).  |   |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000761</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Formulation & (re)packing of substances and mixtures- Industrial  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15<br><b>Environmental Release Categories:</b> ERC2, ESVOC SpERC 2.2.v1   |
| <b>Scope of process</b> | Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities. |

| SECTION 2   |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
|---|--|--|--|
| Section 2.1   |  | Control of Worker Exposure   |  |
| Product Characteristics   |  |  |  |
| Physical form of product  |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article   |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use   |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |  |  |
| Other Operational Conditions affecting Exposure   |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |  |  |
| Contributing Scenarios  |  | Risk Management Measures   |  |
| General exposures (closed systems)PROC1PROC2PROC3   |  | No other specific measures identified.                                   |  |
| General exposures (open systems)PROC4   |  | No other specific measures identified.                                   |  |
| Batch processes at elevated temperaturesOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC3                                 |  | Formulate in enclosed or ventilated mixing vessels.                      |  |
| Process samplingPROC3   |  | No other specific measures identified.                                   |  |
| Laboratory activitiesPROC15   |  | No other specific measures identified.                                   |  |
| Bulk transfersPROC8b  |  | No other specific measures identified.                                   |  |
| Mixing operations (open sys-  |  | No other specific measures identified.                                   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |   |
|---|---|
| tems)PROC5  |   |
| ManualTransfer from/pouring from containersNon-dedicated facilityPROC8a                           | No other specific measures identified.  |
| Drum/batch transfersDedicated facilityPROC8b  | No other specific measures identified.  |
| Production or preparation or articles by tableting, compression, extrusion or pelletisationPROC14 | No other specific measures identified.  |
| Drum and small package fillingPROC9   | No other specific measures identified.  |
| Equipment cleaning and maintenancePROC8a  | No other specific measures identified.  |
| Storage.PROC1PROC2  | Store substance within a closed system. |

|   |  |
|---|--|
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b> |
| Substance is complex UVCB.  |  |
| Predominantly hydrophobic.  |  |
| <b>Amounts Used</b>   |  |
| Fraction of EU tonnage used in region:  | 0,1                                      |
| Regional use tonnage (tonnes/year):   | 70                                       |
| Fraction of Regional tonnage used locally:  | 1  |
| Annual site tonnage (tonnes/year):  | 70                                       |
| Maximum daily site tonnage (kg/day):  | 7,0E+03                                  |
| <b>Frequency and Duration of Use</b>  |  |
| Continuous release.   |  |
| Emission Days (days/year):  | 10                                       |
| <b>Environmental factors not influenced by risk management</b>  |  |
| Local freshwater dilution factor:   | 10                                       |
| Local marine water dilution factor:   | 100                                      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |  |
| Release fraction to air from process (initial release prior to RMM):  | 1,0E-02                                  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 2,0E-04                                  |
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-04                                  |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |  |
| Common practices vary across sites thus conservative process release estimates used.                              |  |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |  |
| Risk from environmental exposure is driven by freshwater sediment.  |  |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.                                  |  |
| No wastewater treatment required.   |  |
| Treat air emission to provide a typical removal efficiency of (%)   | 0  |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0  |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0  |
| <b>Organisational measures to prevent/limit release from site</b>   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

Do not apply industrial sludge to natural soils.  
Sludge should be incinerated, contained or reclaimed.

### Conditions and Measures related to municipal sewage treatment plant

|   |      |
|---|------|
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 94,6 |
|---|------|

|  |      |
|--|------|
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) | 94,6 |
|--|------|

|   |         |
|---|---------|
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 1,3E+05 |
|---|---------|

|   |         |
|---|---------|
| Assumed domestic sewage treatment plant flow (m3/d) | 2,0E+03 |
|---|---------|

### Conditions and Measures related to external treatment of waste for disposal

External treatment and disposal of waste should comply with applicable local and/or regional regulations.

### Conditions and measures related to external recovery of waste

External recovery and recycling of waste should comply with applicable local and/or regional regulations.

## SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

## SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |   |
|-------------------------|---|
| <b>300000000759</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Manufacture of substance- Industrial  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15<br><b>Environmental Release Categories:</b> ERC1, ERC4, ESVOC SpERC 1.1.v1  |
| <b>Scope of process</b> | Manufacture of the substance or use as a process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities. |

| SECTION 2   |  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |  |
|---|--|--|--|
| Section 2.1   |  | Control of Worker Exposure   |  |
| Product Characteristics   |  |  |  |
| Physical form of product  |  | Liquid, vapour pressure < 0.5 kPa at STP                                 |  |
| Concentration of the Substance in Mixture/Article   |  | Covers use of substance/product up to 100% (unless stated differently)., |  |
| Frequency and Duration of Use   |  |  |  |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |  |  |
| Other Operational Conditions affecting Exposure   |  |  |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |  |  |
| Contributing Scenarios  |  | Risk Management Measures   |  |
| General exposures (closed systems)PROC1PROC2PROC3   |  | No other specific measures identified.                                   |  |
| General exposures (open systems)PROC4   |  | No other specific measures identified.                                   |  |
| Process samplingPROC8b  |  | No other specific measures identified.                                   |  |
| Laboratory activitiesPROC15   |  | No other specific measures identified.                                   |  |
| Bulk transfers(open systems)PROC8b  |  | No other specific measures identified.                                   |  |
| Bulk transfers(closed systems)PROC8b  |  | No other specific measures identified.                                   |  |
| Equipment cleaning and maintenancePROC8a  |  | No other specific measures identified.                                   |  |
| Storage.PROC1PROC2  |  | Store substance within a closed system.                                  |  |
| Section 2.2   |  | Control of Environmental Exposure  |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Substance is complex UVCB.  |         |
| Predominantly hydrophobic.  |         |
| <b>Amounts Used</b>   |         |
| Fraction of EU tonnage used in region:  | 0,1     |
| Regional use tonnage (tonnes/year):   | 9,5E+03 |
| Fraction of Regional tonnage used locally:  | 1       |
| Annual site tonnage (tonnes/year):  | 9,5E+03 |
| Maximum daily site tonnage (kg/day):  | 9,5E+04 |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 100     |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 1,0E-02 |
| Release fraction to wastewater from process (initial release prior to RMM):   | 3,0E-04 |
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-04 |
| <b>Technical conditions and measures at process level (source) to prevent release</b>   |         |
| Common practices vary across sites thus conservative process re-lease estimates used.   |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>   |         |
| Risk from environmental exposure is driven by freshwater sediment.  |         |
| Prevent discharge of undissolved substance to or recover from onsite wastewater.  |         |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.  |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 90      |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)   | 74,9    |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.  | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.<br>Prevent discharge of undissolved substance to or recover from onsite wastewater. |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)   | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)  | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)   | 4,4E+05 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 1,0E+04 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>  |         |
| During manufacturing no waste of the substance is generated.  |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

During manufacturing no waste of the substance is generated.

|                  |                            |
|------------------|----------------------------|
| <b>SECTION 3</b> | <b>EXPOSURE ESTIMATION</b> |
|------------------|----------------------------|

**Section 3.1 - Health**

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

**Section 3.2 -Environment**

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

|                  |  |
|------------------|--|
| <b>SECTION 4</b> | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
|------------------|--|

**Section 4.1 - Health**

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

**Section 4.2 -Environment**

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

**300000000760**

| SECTION 1        | EXPOSURE SCENARIO TITLE  |
|------------------|--|
| Title            | Distribution of substance- Industrial  |
| Use Descriptor   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15<br><b>Environmental Release Categories:</b> ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC 6C,, ERC7, ESVOC SpERC 1.1b.v1 |
| Scope of process | Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.                   |

| SECTION 2  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |
|--|--|
| Section 2.1  | Control of Worker Exposure   |
| <b>Product Characteristics</b>   |  |
| Physical form of product   | Liquid, vapour pressure < 0.5 kPa at STP                                 |
| Concentration of the Substance in Mixture/Article  | Covers use of substance/product up to 100% (unless stated differently)., |
| <b>Frequency and Duration of Use</b>   |  |
| Covers daily exposures up to 8 hours (unless stated differently).  |  |
| <b>Other Operational Conditions affecting Exposure</b>   |  |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented. |  |
| <b>Contributing Scenarios</b>  | <b>Risk Management Measures</b>  |

|   |   |
|---|---|
| General exposures (closed systems)PROC1PROC2PROC3 | No other specific measures identified.  |
| General exposures (open systems)PROC4             | No other specific measures identified.  |
| Process samplingPROC3                             | No other specific measures identified.  |
| Laboratory activitiesPROC15                       | No other specific measures identified.  |
| Bulk transfers(closed systems)PROC8b              | No other specific measures identified.  |
| Bulk transfers(open systems)PROC8b                | No other specific measures identified.  |
| Drum and small package fillingPROC9               | No other specific measures identified.  |
| Equipment cleaning and maintenancePROC8a          | No other specific measures identified.  |
| Storage.PROC1PROC2                                | Store substance within a closed system. |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |  |
|---|--|
|   |  |
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b> |
| Substance is complex UVCB.  |  |
| Predominantly hydrophobic.  |  |
| <b>Amounts Used</b>   |  |
| Fraction of EU tonnage used in region:  | 0,1                                      |
| Regional use tonnage (tonnes/year):   | 150                                      |
| Fraction of Regional tonnage used locally:  | 6,8E-03                                  |
| Annual site tonnage (tonnes/year):  | 1,0                                      |
| Maximum daily site tonnage (kg/day):  | 50                                       |
| <b>Frequency and Duration of Use</b>  |  |
| Continuous release.   |  |
| Emission Days (days/year):  | 20                                       |
| <b>Environmental factors not influenced by risk management</b>  |  |
| Local freshwater dilution factor:   | 10                                       |
| Local marine water dilution factor:   | 100                                      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |  |
| Release fraction to air from process (initial release prior to RMM):  | 1,0E-04                                  |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 1,0E-05                                  |
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-05                                  |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |  |
| Common practices vary across sites thus conservative process re-release estimates used.                           |  |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |  |
| Risk from environmental exposure is driven by freshwater.   |  |
| No wastewater treatment required.   |  |
| Treat air emission to provide a typical removal efficiency of (%)   | 90                                       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 0  |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0  |
| <b>Organisational measures to prevent/limit release from site</b>   |  |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |  |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |  |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6                                     |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6                                     |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 1,4E+04                                  |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03                                  |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |  |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |  |
| <b>Conditions and measures related to external recovery of waste</b>  |  |
| External recovery and recycling of waste should comply with applicable local and/or regional                      |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

regulations.

### SECTION 3      EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

#### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4      GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |  |
|-------------------------|--|
| <b>300000000781</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Water treatment chemicals- Industrial  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU3<br><b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 13<br><b>Environmental Release Categories:</b> ERC3, ERC4, ESVOC SpERC 3.22a.v1 |
| <b>Scope of process</b> | Covers the use of the substance for the treatment of water at industrial facilities in open and closed systems.  |

|   |  |     |
|---|--|-----|
| SECTION 2   | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |     |
| Section 2.1   | Control of Worker Exposure   |     |
| Product Characteristics   |  |     |
| Physical form of product  | Liquid, vapour pressure < 0.5 kPa at STP                                 |     |
| Concentration of the Substance in Mixture/Article   | Covers use of substance/product up to 100% (unless stated differently)., |     |
| Frequency and Duration of Use   |  |     |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |     |
| Other Operational Conditions affecting Exposure   |  |     |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |     |
| Contributing Scenarios  | Risk Management Measures   |     |
| Bulk transfersUse in contained systemsPROC2   | No other specific measures identified.                                   |     |
| Drum/batch transfersDedicated facilityPROC8b  | No other specific measures identified.                                   |     |
| General exposures (closed systems)PROC3   | No other specific measures identified.                                   |     |
| General exposures (open systems)PROC4   | No other specific measures identified.                                   |     |
| Pouring from small containersPROC13   | No other specific measures identified.                                   |     |
| Equipment maintenance-PROC8a  | No other specific measures identified.                                   |     |
| Storage.PROC1   | Store substance within a closed system.                                  |     |
| Section 2.2   | Control of Environmental Exposure  |     |
| Substance is complex UVCB.  |  |     |
| Predominantly hydrophobic.  |  |     |
| Amounts Used  |  |     |
| Fraction of EU tonnage used in region:  |  | 0,1 |
| Regional use tonnage (tonnes/year):   |  | 340 |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Fraction of Regional tonnage used locally:  | 8,8E-02 |
| Annual site tonnage (tonnes/year):  | 3,0E-01 |
| Maximum daily site tonnage (kg/day):  | 1,0E+02 |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 300     |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 5,0E-02 |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 0,95    |
| Release fraction to soil from process (initial release prior to RMM):   | 0       |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process re-release estimates used.                           |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by freshwater sediment.  |         |
| If discharging to domestic sewage treatment plant, additional onsite wastewater treatment required.               |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 0       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 98,5    |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 71,9    |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 98,5    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 1,0E+02 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |         |

### SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

indicated.

### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Worker

|                         |  |
|-------------------------|--|
| <b>300000000782</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Water treatment chemicals- Professional  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU22<br><b>Process Categories:</b> PROC 1, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 13<br><b>Environmental Release Categories:</b> ERC8f, ESVOC SpERC 8.22b.v1 |
| <b>Scope of process</b> | Covers the use of the substance for the treatment of water in open and closed systems.   |

|   |  |         |
|---|--|---------|
| SECTION 2   | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES                      |         |
| Section 2.1   | Control of Worker Exposure   |         |
| Product Characteristics   |  |         |
| Physical form of product  | Liquid, vapour pressure < 0.5 kPa at STP                                 |         |
| Concentration of the Substance in Mixture/Article   | Covers use of substance/product up to 100% (unless stated differently)., |         |
| Frequency and Duration of Use   |  |         |
| Covers daily exposures up to 8 hours (unless stated differently).   |  |         |
| Other Operational Conditions affecting Exposure   |  |         |
| Assumes use at not more than 20°C above ambient temperature (unless stated differently).<br>Assumes a good basic standard of occupational hygiene is implemented. |  |         |
| Contributing Scenarios  | Risk Management Measures   |         |
| Drum/batch transfersDedicated facilityPROC8b  | No other specific measures identified.                                   |         |
| General exposures (closed systems)PROC3   | No other specific measures identified.                                   |         |
| General exposures (open systems)PROC4   | No other specific measures identified.                                   |         |
| Pouring from small containersPROC13   | No other specific measures identified.                                   |         |
| Equipment maintenance-PROC8a  | No other specific measures identified.                                   |         |
| Storage.PROC1   | Store substance within a closed system.                                  |         |
| Section 2.2   | Control of Environmental Exposure  |         |
| Substance is complex UVCB.  |  |         |
| Predominantly hydrophobic.  |  |         |
| Amounts Used  |  |         |
| Fraction of EU tonnage used in region:  |  | 0,1     |
| Regional use tonnage (tonnes/year):   |  | 130     |
| Fraction of Regional tonnage used locally:  |  | 1,1E-02 |
| Annual site tonnage (tonnes/year):  |  | 1,5     |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Maximum daily site tonnage (kg/day):  | 4,0     |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 365     |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 1,0E-02 |
| Release fraction to wastewater from process (initial release prior to RMM):                                       | 0,99    |
| Release fraction to soil from process (initial release prior to RMM):   | 0       |
| <b>Technical conditions and measures at process level (source) to prevent release</b>                             |         |
| Common practices vary across sites thus conservative process re-release estimates used.                           |         |
| <b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b> |         |
| Risk from environmental exposure is driven by soil.   |         |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    |         |
| Treat air emission to provide a typical removal efficiency of (%)   | 0       |
| Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) | 64,3    |
| If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.                    | 0       |
| <b>Organisational measures to prevent/limit release from site</b>   |         |
| Do not apply industrial sludge to natural soils.<br>Sludge should be incinerated, contained or reclaimed.         |         |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                                     | 94,6    |
| Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)          | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)       | 26      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                                |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.         |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.         |         |

### SECTION 3

### EXPOSURE ESTIMATION

#### Section 3.1 - Health

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated.

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.  
Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Consumer

|                         |  |
|-------------------------|--|
| <b>300000001116</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Functional Fluids - Consumer   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU21<br><b>Product Categories:</b> PC16, PC17<br><b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.13c.v1 |
| <b>Scope of process</b> | Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.   |

|   |  |
|---|--|
| <b>SECTION 2</b>  | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>         |
| <b>Section 2.1</b>  | <b>Control of Consumer Exposure</b>                                |
| <b>Product Characteristics</b>  |  |
| Physical form of product  | Liquid, vapour pressure > 10 Pa                                    |
| Concentration of the Sub-stance in Mixture/Article  | Unless stated otherwise.   |
|   | Covers concentration up to (%): 100 %                              |
| <b>Amounts Used</b>   |  |
| Unless stated otherwise.  |  |
| for each use event, covers amount up to (g):  | 2.200  |
| covers skin contact area (cm2):   | 468  |
| <b>Frequency and Duration of Use</b>  |  |
| Unless stated otherwise.  |  |
| Covers use up to (days/year):   | 4  |
| covers use up to (times/day of use):  | 1  |
| Exposure (hours/event):   | 0,17   |
| <b>Other Operational Conditions affecting Exposure</b>  |  |
| Unless stated otherwise.<br>Covers use at ambient temperatures.<br>Covers use in room size of 20m3<br>Covers use under typical household ventilation. |  |
| <b>Product Categories</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>         |
| Heat transfer fluids Liquids.   | Covers concentrations up to 100 %                                  |
|   | covers use up to 4 day/year  |
|   | Covers use up to 1 times/day of use                                |
|   | covers skin contact area up to (cm2): 468,00 cm2                   |
|   | For each use event, covers amount up to 2.200 g                    |
|   | Covers use in a one car garage (34 m3) under typical ventila-tion. |
|   | Covers use in room size of 34 m3                                   |
|   | Covers exposure up to 0,17 hours/event                             |
| Hydraulic fluids Liquids.   | Covers concentrations up to 100 %                                  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |   |
|--|---|
|  | covers use up to 4 day/year                                       |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 468,00 cm2                  |
|  | For each use event, covers amount up to 2.200 g                   |
|  | Covers use in a one car garage (34 m3) under typical ventilation. |
|  | Covers use in room size of 34 m3                                  |
|  | Covers exposure up to 0,17 hours/event                            |

|   |  |
|---|--|
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b> |
| Substance is complex UVCB.  |  |
| Predominantly hydrophobic.  |  |
| <b>Amounts Used</b>   |  |
| Fraction of EU tonnage used in region:  | 0,1                                      |
| Regional use tonnage (tonnes/year):   | 3,0                                      |
| Fraction of Regional tonnage used locally:  | 5,0E-04                                  |
| Annual site tonnage (tonnes/year):  | 1,5E-03                                  |
| Maximum daily site tonnage (kg/day):  | 4,1E-03                                  |
| <b>Frequency and Duration of Use</b>  |  |
| Continuous release.   |  |
| Emission Days (days/year):  | 365                                      |
| <b>Environmental factors not influenced by risk management</b>  |  |
| Local freshwater dilution factor:   | 10                                       |
| Local marine water dilution factor:   | 100                                      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |  |
| Release fraction to air from process (initial release prior to RMM):  | 5,0E-02                                  |
| Release fraction to wastewater from process (initial release prior to RMM):                                 | 2,5E-02                                  |
| Release fraction to soil from process (initial release prior to RMM):                                       | 2,5E-02                                  |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                  |  |
| Risk from environmental exposure is driven by freshwater.   |  |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                               | 94,6                                     |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 1,1                                      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03                                  |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |  |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |  |
| <b>Conditions and measures related to external recovery of waste</b>  |  |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |  |

|  |                            |
|--|----------------------------|
| <b>SECTION 3</b>   | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>  |                            |
| The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated. |                            |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

|         |                |              |                                |
|---------|----------------|--------------|--------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 11.03.2024 |
| 6.7     | 28.03.2024     | 800001007476 | Print Date 04.04.2024          |

### Section 3.2 -Environment

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

### SECTION 4

### GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

#### Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

#### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.

Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Consumer

|                         |  |
|-------------------------|--|
| <b>300000001115</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Use as a fuel - Consumer   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU21<br><b>Product Categories:</b> PC13<br><b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.12c.v1 |
| <b>Scope of process</b> | Covers consumer uses in liquid fuels.  |

|   |  |
|---|--|
| <b>SECTION 2</b>  | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b> |
| <b>Section 2.1</b>  | <b>Control of Consumer Exposure</b>                        |
| <b>Product Characteristics</b>  |  |
| Physical form of product  | Liquid, vapour pressure > 10 Pa                            |
| Concentration of the Sub-stance in Mixture/Article  | Unless stated otherwise.                                   |
|   | Covers concentration up to (%): 100 %                      |
| <b>Amounts Used</b>   |  |
| Unless stated otherwise.  |  |
| for each use event, covers amount up to (g):  | 37.500   |
| covers skin contact area (cm2):   | 420  |
| <b>Frequency and Duration of Use</b>  |  |
| Unless stated otherwise.Covers use up to (days/year):   |  |
| Covers use up to (days/year):   | 365  |
| covers use up to (times/day of use):  | 1  |
| Exposure (hours/event):   | 2  |
| <b>Other Operational Conditions affecting Exposure</b>  |  |
| Unless stated otherwise.<br>Covers use at ambient temperatures.<br>Covers use in room size of 20m3<br>Covers use under typical household ventilation. |  |
| <b>Product Categories</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b> |
| Fuels Liquid: Automotive Refuelling.  | Covers concentrations up to 100 %                          |
|   | covers use up to 52 day/year                               |
|   | covers use up to 1 times/day of use                        |
|   | covers skin contact area up to (cm2): 210,00 cm2           |
|   | For each use event, covers amount up to 37.500 g           |
|   | Covers outdoor use.  |
|   | Covers use in room size of 100 m3                          |
|   | Covers exposure up to 0,05 hours/event                     |
| Fuels Liquid Scooter Refu-elling.   | Covers concentrations up to 100 %                          |



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |   |
|--|---|
|  | covers use up to 52 day/year                                      |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 210 cm2                     |
|  | For each use event, covers amount up to 3.750 g                   |
|  | Covers outdoor use.   |
|  | Covers use in room size of 100 m3                                 |
|  | Covers exposure up to 0,03 hours/event                            |
| Fuels Liquid, Garden Equipment - Use.        | Covers concentrations up to 100 %                                 |
|  | covers use up to 26 day/year                                      |
|  | Covers use up to 1 times/day of use                               |
|  | For each use event, covers amount up to 750 g                     |
|  | Covers outdoor use.   |
|  | Covers use in room size of 100 m3                                 |
|  | Covers exposure up to 2,00 hours/event                            |
| Fuels Liquid: Garden Equipment - Refuelling. | Covers concentrations up to 100 %                                 |
|  | covers use up to 26 day/year                                      |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 420,00 cm2                  |
|  | For each use event, covers amount up to 750 g                     |
|  | Covers use in a one car garage (34 m3) under typical ventilation. |
|  | Covers use in room size of 34 m3                                  |
|  | Covers exposure up to 0,03 hours/event                            |
| Fuels Liquid: Home space heater fuel.        | Covers concentrations up to 100 %                                 |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 210,00 cm2                  |
|  | For each use event, covers amount up to 3.000 g                   |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,03 hours/event                            |
| Fuels Liquid: Lamp oil.                      | Covers concentrations up to 100 %                                 |
|  | covers use up to 52 day/year                                      |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 210,00 cm2                  |
|  | For each use event, covers amount up to 100 g                     |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,01 hours/event                            |

| Section 2.2                                | Control of Environmental Exposure |
|--|-----------------------------------|
| Substance is complex UVCB.                 |                                   |
| Predominantly hydrophobic.                 |                                   |
| <b>Amounts Used</b>                        |                                   |
| Fraction of EU tonnage used in region:     | 0,1                               |
| Regional use tonnage (tonnes/year):        | 2,4E+03                           |
| Fraction of Regional tonnage used locally: | 5,0E-04                           |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Annual site tonnage (tonnes/year):  | 1,2     |
| Maximum daily site tonnage (kg/day):  | 3,2     |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 365     |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 1,0E-04 |
| Release fraction to wastewater from process (initial release prior to RMM):   | 1,0E-05 |
| Release fraction to soil from process (initial release prior to RMM):   | 1,0E-05 |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>  |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)   | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)                                   | 8,4E+02 |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>  |         |
| Combustion emissions limited by required exhaust emission controls.<br>Waste combustion emissions considered in regional exposure assessment. |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| This substance is consumed during use and no waste of substance is generated.   |         |

|  |                            |
|--|----------------------------|
| <b>SECTION 3</b>   | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>  |                            |
| The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

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|  |
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| measures.  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.            |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.                          |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ). |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Consumer

|                         |  |
|-------------------------|--|
| <b>300000001114</b>     |  |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>   |
| <b>Title</b>            | Use in Agrochemicals uses - Consumer   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU21<br><b>Product Categories:</b> , PC27<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.11b.v1 |
| <b>Scope of process</b> | Covers the consumer use in agrochemicals in liquid and solid forms.  |

|   |  |
|---|--|
| <b>SECTION 2</b>  | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b> |
| <b>Section 2.1</b>  | <b>Control of Consumer Exposure</b>                        |
| <b>Product Characteristics</b>  |  |
| Physical form of product  | Liquid, vapour pressure > 10 Pa                            |
| Concentration of the Sub-stance in Mixture/Article  | Unless stated otherwise.                                   |
|   | Covers concentration up to (%): 50 %                       |
| <b>Amounts Used</b>   |  |
| Unless stated otherwise.  |  |
| covers skin contact area (cm2):   | 857,5  |
| <b>Frequency and Duration of Use</b>  |  |
| Unless stated otherwise.  |  |
| Covers use up to (days/year):   | 365  |
| covers use up to (times/day of use):  | 1  |
| Exposure (hours/event):   | 4  |
| <b>Other Operational Conditions affecting Exposure</b>  |  |
| Unless stated otherwise.<br>Covers use at ambient temperatures.<br>Covers use in room size of 20m3<br>Covers use under typical household ventilation. |  |
| <b>Product Categories</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b> |
| Fertilizers Lawn and garden preparations.   | Covers concentrations up to 15 %                           |
|   | covers use up to 365 day/year                              |
|   | covers use up to 1 times/day of use                        |
|   | covers skin contact area up to (cm2): 857,50 cm2           |
|   | Covers exposure up to 4 hours/event                        |
|   | For each use event, assumes swallowed amount of 0,3 g      |
|   | Covers exposure up to 4 hours/event                        |
| Plant protection products   | Covers concentrations up to 15 %                           |
|   | covers use up to 365 day/year                              |
|   | Covers use up to 1 times/day of use                        |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |   |
|--|---|
|  | covers skin contact area up to (cm2): 857,50 cm2      |
|  | For each use event, assumes swallowed amount of 0,3 g |
|  | Covers exposure up to 4 hours/event                   |

|   |  |
|---|--|
| <b>Section 2.2</b>  | <b>Control of Environmental Exposure</b> |
| Substance is complex UVCB.  |  |
| Predominantly hydrophobic.  |  |
| <b>Amounts Used</b>   |  |
| Fraction of EU tonnage used in region:  | 0,1                                      |
| Regional use tonnage (tonnes/year):   | 10                                       |
| Fraction of Regional tonnage used locally:  | 2,0E-03                                  |
| Annual site tonnage (tonnes/year):  | 2,0E-02                                  |
| Maximum daily site tonnage (kg/day):  | 5,5E-02                                  |
| <b>Frequency and Duration of Use</b>  |  |
| Continuous release.   |  |
| Emission Days (days/year):  | 365                                      |
| <b>Environmental factors not influenced by risk management</b>  |  |
| Local freshwater dilution factor:   | 10                                       |
| Local marine water dilution factor:   | 100                                      |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |  |
| Release fraction to air from process (initial release prior to RMM):  | 0,9                                      |
| Release fraction to wastewater from process (initial release prior to RMM):                                 | 1,0E-02                                  |
| Release fraction to soil from process (initial release prior to RMM):                                       | 9,0E-02                                  |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                  |  |
| Risk from environmental exposure is driven by freshwater.   |  |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                               | 94,6                                     |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 1,4E+01                                  |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03                                  |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |  |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |  |
| <b>Conditions and measures related to external recovery of waste</b>  |  |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |  |

|  |                            |
|--|----------------------------|
| <b>SECTION 3</b>   | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>  |                            |
| The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

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| SECTION 4   | GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO |
|---|---|
| <b>Section 4.1 - Health</b>   |   |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |   |
| <b>Section 4.2 -Environment</b>   |   |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.  |   |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.   |   |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.   |   |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).  |   |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Consumer

|                         |   |
|-------------------------|---|
| <b>300000001113</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Lubricants - Consumer High Environmental Release  |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU21<br><b>Product Categories:</b> PC1, PC24, PC31<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOc SpERC 8.6e.v1  |
| <b>Scope of process</b> | Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil. |

|   |  |
|---|--|
| <b>SECTION 2</b>  | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b> |
| <b>Section 2.1</b>  | <b>Control of Consumer Exposure</b>                        |
| <b>Product Characteristics</b>  |  |
| Physical form of product  | Liquid, vapour pressure > 10 Pa                            |
| Concentration of the Substance in Mixture/Article   | Unless stated otherwise.                                   |
|   | Covers concentration up to (%): 100 %                      |
| <b>Amounts Used</b>   |  |
| Unless stated otherwise.  |  |
| for each use event, covers amount up to (g):  | 6.390  |
| covers skin contact area (cm2):   | 468  |
| <b>Frequency and Duration of Use</b>  |  |
| Unless stated otherwise.  |  |
| Covers use up to (days/year):   | 365  |
| covers use up to (times/day of use):  | 1  |
| Exposure (hours/event):   | 8  |
| <b>Other Operational Conditions affecting Exposure</b>  |  |
| Unless stated otherwise.<br>Covers use at ambient temperatures.<br>Covers use in room size of 20m3<br>Covers use under typical household ventilation. |  |
| <b>Product Categories</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b> |
| Adhesives, sealants Glues, hobby use.   | Covers concentrations up to 30 %                           |
|   | covers use up to 365 day/year                              |
|   | covers use up to 1 times/day of use                        |
|   | covers skin contact area up to (cm2): 35,73 cm2            |
|   | For each use event, covers amount up to 9 g                |
|   | Covers use under typical household ventilation.            |
|   | Covers use in room size of 20 m3                           |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

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|  |  |
|--|--|
|  | Covers exposure up to 4,00 hours/event                                 |
| Adhesives, sealants Glues<br>DIY-use (carpet glue, tile<br>glue, wood parquet glue). | Covers concentrations up to 30 %                                       |
|  | covers use up to 1 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 110,00 cm2                       |
|  | For each use event, covers amount up to 6.390 g                        |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 6,00 hours/event                                 |
| Adhesives, sealants Glue<br>from spray.  | Covers concentrations up to 30 %                                       |
|  | covers use up to 6 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 35,73 cm2                        |
|  | For each use event, covers amount up to 85,05 g                        |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 4,00 hours/event                                 |
| Adhesives, sealants Seal-<br>ants.   | Covers concentrations up to 30 %                                       |
|  | covers use up to 365 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 35,73 cm2                        |
|  | For each use event, covers amount up to 75 g                           |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 1,00 hours/event                                 |
|  | Avoid using when windows closed.                                       |
| Lubricants, greases, re-<br>lease products Liquids.                                  | Covers concentrations up to 100 %                                      |
|  | covers use up to 4 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 468,00 cm2                       |
|  | For each use event, covers amount up to 2.200 g                        |
|  | Covers use in a one car garage (34 m3) under typical ventila-<br>tion. |
|  | Covers use in room size of 34 m3                                       |
|  | Covers exposure up to 0,17 hours/event                                 |
| Lubricants, greases, re-<br>lease products Pastes.                                   | Covers concentrations up to 20 %                                       |
|  | covers use up to 10 day/year   |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 468,00 cm2                       |
|  | For each use event, covers amount up to 34 g                           |
|  | Covers exposure up to 4 hours/event                                    |
| Lubricants, greases, re-<br>lease products Sprays.                                   | Covers concentrations up to 50 %                                       |
|  | covers use up to 6 day/year  |
|  | Covers use up to 1 times/day of use                                    |



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |  |
|--|--|
|  | covers skin contact area up to (cm2): 428,75 cm2 |
|  | For each use event, covers amount up to 73 g     |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 0,17 hours/event           |
| Polishes and wax blends<br>Polishes, wax / cream<br>(floor, furniture, shoes). | Covers concentrations up to 50 %                 |
|  | covers use up to 29 day/year                     |
|  | Covers use up to 1 times/day of use              |
|  | covers skin contact area up to (cm2): 430,00 cm2 |
|  | For each use event, covers amount up to 142 g    |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 1,23 hours/event           |
| Polishes and wax blends<br>Polishes, spray (furniture,<br>shoes).              | Covers concentrations up to 50 %                 |
|  | covers use up to 8 day/year                      |
|  | Covers use up to 1 times/day of use              |
|  | covers skin contact area up to (cm2): 430,00 cm2 |
|  | For each use event, covers amount up to 35 g     |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 0,33 hours/event           |

| Section 2.2   | Control of Environmental Exposure |
|---|-----------------------------------|
| Substance is complex UVCB.  |                                   |
| Predominantly hydrophobic.  |                                   |
| <b>Amounts Used</b>   |                                   |
| Fraction of EU tonnage used in region:  | 0,1                               |
| Regional use tonnage (tonnes/year):   | 50                                |
| Fraction of Regional tonnage used locally:                                    | 5,0E-04                           |
| Annual site tonnage (tonnes/year):  | 2,5E-02                           |
| Maximum daily site tonnage (kg/day):  | 6,8E-02                           |
| <b>Frequency and Duration of Use</b>  |                                   |
| Continuous release.   |                                   |
| Emission Days (days/year):  | 365                               |
| <b>Environmental factors not influenced by risk management</b>                |                                   |
| Local freshwater dilution factor:   | 10                                |
| Local marine water dilution factor:   | 100                               |
| <b>Other Operational Conditions affecting Environmental Exposure</b>          |                                   |
| Release fraction to air from process (initial release prior to RMM):          | 0,15                              |
| Release fraction to wastewater from process (initial release prior to RMM):   | 5,0E-02                           |
| Release fraction to soil from process (initial release prior to RMM):         | 5,0E-02                           |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>    |                                   |
| Risk from environmental exposure is driven by freshwater.                     |                                   |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 94,6                              |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 17      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E-03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |         |

|  |                            |
|--|----------------------------|
| <b>SECTION 3</b>   | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>  |                            |
| The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.  |  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.  |  |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Consumer

|                         |   |
|-------------------------|---|
| <b>300000001112</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Lubricants - Consumer Low Environmental Release   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU21<br><b>Product Categories:</b> PC1, PC24, PC31<br><b>Environmental Release Categories:</b> ERC9a, ERC9b, ESVOC SpERC 9.6d.v1  |
| <b>Scope of process</b> | Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil. |

|   |   |       |
|---|---|-------|
| SECTION 2   | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |       |
| Section 2.1   | Control of Consumer Exposure                        |       |
| Product Characteristics   |   |       |
| Physical form of product  | Liquid, vapour pressure > 10 Pa                     |       |
| Concentration of the Sub-stance in Mixture/Article  | Unless stated otherwise.                            |       |
|   | Covers concentration up to (%): 100 %               |       |
| Amounts Used  |   |       |
| Unless stated otherwise.  |   |       |
| for each use event, covers amount up to (g):  |   | 6.390 |
| covers skin contact area (cm2):   |   | 468   |
| Frequency and Duration of Use   |   |       |
| Unless stated otherwise.  |   |       |
| Covers use up to (days/year):   |   | 365   |
| covers use up to (times/day of use):  |   | 1     |
| Exposure (hours/event):   |   | 8     |
| Other Operational Conditions affecting Exposure   |   |       |
| Unless stated otherwise.<br>Covers use at ambient temperatures.<br>Covers use in room size of 20m3<br>Covers use under typical household ventilation. |   |       |
| Product Categories  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |       |
| Adhesives, sealants Glues, hobby use.   | Covers concentrations up to 30 %                    |       |
|   | covers use up to 365 day/year                       |       |
|   | covers use up to 1 times/day of use                 |       |
|   | covers skin contact area up to (cm2): 35,73 cm2     |       |
|   | For each use event, covers amount up to 9 g         |       |
|   | Covers use under typical household ventilation.     |       |
|   | Covers use in room size of 20 m3                    |       |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |  |
|--|--|
|  | Covers exposure up to 4,00 hours/event                                 |
| Adhesives, sealants Glues<br>DIY-use (carpet glue, tile<br>glue, wood parquet glue). | Covers concentrations up to 30 %                                       |
|  | covers use up to 1 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 110,00 cm2                       |
|  | For each use event, covers amount up to 6.390 g                        |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 6,00 hours/event                                 |
| Adhesives, sealants Glue<br>from spray.  | Covers concentrations up to 30 %                                       |
|  | covers use up to 6 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 35,73 cm2                        |
|  | For each use event, covers amount up to 85,05 g                        |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 4,00 hours/event                                 |
| Adhesives, sealants Seal-<br>ants.   | Covers concentrations up to 30 %                                       |
|  | covers use up to 365 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 35,73 cm2                        |
|  | For each use event, covers amount up to 75 g                           |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 1,00 hours/event                                 |
|  | Avoid using when windows closed.                                       |
| Lubricants, greases, re-<br>lease products Liquids.                                  | Covers concentrations up to 100 %                                      |
|  | covers use up to 4 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 468,00 cm2                       |
|  | For each use event, covers amount up to 2.200 g                        |
|  | Covers use in a one car garage (34 m3) under typical ventila-<br>tion. |
|  | Covers use in room size of 34 m3                                       |
|  | Covers exposure up to 0,17 hours/event                                 |
| Lubricants, greases, re-<br>lease products Pastes.                                   | Covers concentrations up to 20 %                                       |
|  | covers use up to 10 day/year   |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 468,00 cm2                       |
|  | For each use event, covers amount up to 34 g                           |
|  | Covers exposure up to 4 hours/event                                    |
| Lubricants, greases, re-<br>lease products Sprays.                                   | Covers concentrations up to 50 %                                       |
|  | covers use up to 6 day/year  |
|  | Covers use up to 1 times/day of use                                    |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |  |
|--|--|
|  | covers skin contact area up to (cm2): 428,75 cm2 |
|  | For each use event, covers amount up to 73 g     |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 0,17 hours/event           |
| Polishes and wax blends<br>Polishes, wax / cream<br>(floor, furniture, shoes). | Covers concentrations up to 50 %                 |
|  | covers use up to 29 day/year                     |
|  | Covers use up to 1 times/day of use              |
|  | covers skin contact area up to (cm2): 430,00 cm2 |
|  | For each use event, covers amount up to 142 g    |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 1,23 hours/event           |
| Polishes and wax blends<br>Polishes, spray (furniture,<br>shoes).              | Covers concentrations up to 50 %                 |
|  | covers use up to 8 day/year                      |
|  | Covers use up to 1 times/day of use              |
|  | covers skin contact area up to (cm2): 430,00 cm2 |
|  | For each use event, covers amount up to 35 g     |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 0,33 hours/event           |

| Section 2.2   | Control of Environmental Exposure |
|---|-----------------------------------|
| Substance is complex UVCB.  |                                   |
| Predominantly hydrophobic.  |                                   |
| <b>Amounts Used</b>   |                                   |
| Fraction of EU tonnage used in region:  | 0,1                               |
| Regional use tonnage (tonnes/year):   | 50                                |
| Fraction of Regional tonnage used locally:                                    | 5,0E-04                           |
| Annual site tonnage (tonnes/year):  | 2,5E-02                           |
| Maximum daily site tonnage (kg/day):  | 6,8E-02                           |
| <b>Frequency and Duration of Use</b>  |                                   |
| Continuous release.   |                                   |
| Emission Days (days/year):  | 365                               |
| <b>Environmental factors not influenced by risk management</b>                |                                   |
| Local freshwater dilution factor:   | 10                                |
| Local marine water dilution factor:   | 100                               |
| <b>Other Operational Conditions affecting Environmental Exposure</b>          |                                   |
| Release fraction to air from process (initial release prior to RMM):          | 1,0E-02                           |
| Release fraction to wastewater from process (initial release prior to RMM):   | 1,0E-02                           |
| Release fraction to soil from process (initial release prior to RMM):         | 1,0E-02                           |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>    |                                   |
| Risk from environmental exposure is driven by freshwater.                     |                                   |
| Estimated substance removal from wastewater via domestic sewage treatment (%) | 94,6                              |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|   |         |
|---|---------|
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 18      |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03 |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |         |

|  |                            |
|--|----------------------------|
| <b>SECTION 3</b>   | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>  |                            |
| The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated. |                            |

|  |  |
|--|--|
| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

|   |  |
|---|--|
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

|  |  |
|--|--|
| <b>Section 4.2 -Environment</b>  |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. |  |
| Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.  |  |
| Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.  |  |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).   |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

### Exposure Scenario - Consumer

|                         |   |
|-------------------------|---|
| <b>300000001111</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Use in Cleaning Agents - Consumer   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU21<br><b>Product Categories:</b> PC3, PC4, PC8 (excipient only), PC9a, PC24, PC35, PC38<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.4c.v1 |
| <b>Scope of process</b> | Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.       |

|   |  |
|---|--|
| <b>SECTION 2</b>  | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b> |
| <b>Section 2.1</b>  | <b>Control of Consumer Exposure</b>                        |
| <b>Product Characteristics</b>  |  |
| Physical form of product  | Liquid, vapour pressure > 10 kPa at STP                    |
| Concentration of the Substance in Mixture/Article   | Unless stated otherwise.                                   |
|   | Covers concentration up to (%): 100 %                      |
| <b>Amounts Used</b>   |  |
| Unless stated otherwise.  |  |
| for each use event, covers amount up to (g):  | 13.800   |
| covers skin contact area (cm2):   | 857,5  |
| <b>Frequency and Duration of Use</b>  |  |
| Unless stated otherwise.  |  |
| Covers use up to (days/year):   | 365  |
| covers use up to (times/day of use):  | 4  |
| Exposure (hours/event):   | 8  |
| <b>Other Operational Conditions affecting Exposure</b>  |  |
| Unless stated otherwise.<br>Covers use at ambient temperatures.<br>Covers use in room size of 20m3<br>Covers use under typical household ventilation. |  |
| <b>Product Categories</b>   | <b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b> |
| Air care products Air care, instant action (aerosol sprays).  | Covers concentrations up to 50 %                           |
|   | covers use up to 365 day/year                              |
|   | covers use up to 4 times/day of use                        |
|   | For each use event, covers amount up to 0,1 g              |
|   | Covers use under typical household ventilation.            |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

|  |   |
|--|---|
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,25 hours/event                            |
| Air care products Air care, instant action (aerosol sprays). pesticides (excipient only).      | Covers concentrations up to 50 %                                  |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 4 times/day of use                               |
|  | For each use event, covers amount up to 5 g                       |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,25 hours/event                            |
| Air care products Air care, continuous action (solid and liquid).                              | Covers concentrations up to 10 %                                  |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 35,70 cm2                   |
|  | For each use event, covers amount up to 0,48 g                    |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 8,00 hours/event                            |
| Air care products Air care, continuous action (solid and liquid). pesticides (excipient only). | Covers concentrations up to 50 %                                  |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 35,70 cm2                   |
|  | For each use event, covers amount up to 0,48 g                    |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 8,00 hours/event                            |
| Anti-Freeze and de-icing products Washing car window.  | Covers concentrations up to 1 %                                   |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | For each use event, covers amount up to 0,5 g                     |
|  | Covers use in a one car garage (34 m3) under typical ventilation. |
|  | Covers use in room size of 34 m3                                  |
|  | Covers exposure up to 0,02 hours/event                            |
| Anti-Freeze and de-icing products Pouring into radiator.                                       | Covers concentrations up to 10 %                                  |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 428,00 cm2                  |
|  | For each use event, covers amount up to 2.000 g                   |
|  | Covers use in a one car garage (34 m3) under typical ventila-     |



# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
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|  |   |
|--|---|
|  | tion.   |
|  | Covers use in room size of 34 m3                                  |
|  | Covers exposure up to 0,17 hours/event                            |
| Anti-Freeze and de-icing products Lock de-icer.  | Covers concentrations up to 50 %                                  |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 214,40 cm2                  |
|  | For each use event, covers amount up to 4 g                       |
|  | Covers use in a one car garage (34 m3) under typical ventilation. |
|  | Covers use in room size of 34 m3                                  |
|  | Covers exposure up to 0,25 hours/event                            |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Laundry and dish washing products.  | Covers concentrations up to 5 %                                   |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 857,50 cm2                  |
|  | For each use event, covers amount up to 15 g                      |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,50 hours/event                            |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners). | Covers concentrations up to 5 %                                   |
|  | covers use up to 128 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 857,50 cm2                  |
|  | For each use event, covers amount up to 27 g                      |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,33 hours/event                            |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners).   | Covers concentrations up to 15 %                                  |
|  | covers use up to 128 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 428,00 cm2                  |
|  | For each use event, covers amount up to 35 g                      |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |

# SAFETY DATA SHEET

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6.7

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|   |   |
|---|---|
|   | Covers exposure up to 0,17 hours/event                            |
| Coatings and paints, thinners, paint removers Waterborne latex wall paint.                            | Covers concentrations up to 1,5 %                                 |
|   | Covers use under typical household ventilation.                   |
|   | For each use event, covers amount up to 2.760 g                   |
|   | covers skin contact area up to (cm2): 428,75 cm2                  |
|   | Covers use up to 1 times/day of use                               |
|   | Covers use in room size of 20 m3                                  |
|   | Covers exposure up to 2,2 hours/event                             |
| Coatings and paints, thinners, paint removers Solvent rich, high solid, water borne paint.            | Covers concentrations up to 27,5 %                                |
|   | covers use up to 6 day/year                                       |
|   | Covers use up to 1 times/day of use                               |
|   | covers skin contact area up to (cm2): 428,75 cm2                  |
|   | For each use event, covers amount up to 744 g                     |
|   | Covers use under typical household ventilation.                   |
|   | Covers use in room size of 20 m3                                  |
|   | Covers exposure up to 2,2 hours/event                             |
| Coatings and paints, thinners, paint removers Aerosol spray can.                                      | Covers concentrations up to 50 %                                  |
|   | covers use up to 2 day/year                                       |
|   | Covers use up to 1 times/day of use                               |
|   | For each use event, covers amount up to 215 g                     |
|   | Covers use in a one car garage (34 m3) under typical ventilation. |
|   | Covers use in room size of 34 m3                                  |
|   | Covers exposure up to 0,33 hours/event                            |
| Coatings and paints, thinners, paint removers Removers (paint-, glue-, wall paper-, sealant-remover). | Covers concentrations up to 50 %                                  |
|   | covers use up to 3 day/year                                       |
|   | Covers use up to 1 times/day of use                               |
|   | covers skin contact area up to (cm2): 857,50 cm2                  |
|   | For each use event, covers amount up to 491 g                     |
|   | Covers use under typical household ventilation.                   |
|   | Covers use in room size of 20 m3                                  |
|   | Covers exposure up to 2,00 hours/event                            |
| Lubricants, greases, release products Liquids.  | Covers concentrations up to 100 %                                 |
|   | covers use up to 4 day/year                                       |
|   | Covers use up to 1 times/day of use                               |
|   | covers skin contact area up to (cm2): 468,00 cm2                  |
|   | For each use event, covers amount up to 2.200 g                   |
|   | Covers use in a one car garage (34 m3) under typical ventilation. |
|   | Covers use in room size of 34 m3                                  |

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|  |  |
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|  | Covers exposure up to 0,17 hours/event           |
| Lubricants, greases, re-release products Pastes.   | Covers concentrations up to 20 %                 |
|  | covers use up to 10 day/year                     |
|  | Covers use up to 1 times/day of use              |
|  | covers skin contact area up to (cm2): 468,00 cm2 |
|  | For each use event, covers amount up to 34 g     |
|  | Covers exposure up to 4,00 hours/event           |
| Lubricants, greases, re-release products Sprays.   | Covers concentrations up to 50 %                 |
|  | covers use up to 6 day/year                      |
|  | Covers use up to 1 times/day of use              |
|  | covers skin contact area up to (cm2): 428,75 cm2 |
|  | For each use event, covers amount up to 73 g     |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 0,17 hours/event           |
| Washing and cleaning products (including solvent based products) Laundry and dish washing products.  | Covers concentrations up to 5 %                  |
|  | covers use up to 365 day/year                    |
|  | Covers use up to 1 times/day of use              |
|  | covers skin contact area up to (cm2): 857,50 cm2 |
|  | For each use event, covers amount up to 15 g     |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 0,50 hours/event           |
| Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners). | Covers concentrations up to 5 %                  |
|  | covers use up to 128 day/year                    |
|  | Covers use up to 1 times/day of use              |
|  | covers skin contact area up to (cm2): 857,50 cm2 |
|  | For each use event, covers amount up to 27 g     |
|  | Covers use under typical household ventilation.  |
|  | Covers use in room size of 20 m3                 |
|  | Covers exposure up to 0,33 hours/event           |
| Washing and cleaning products (including solvent based products) Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners).   | Covers concentrations up to 15 %                 |
|  | covers use up to 128 day/year                    |
|  | Covers use up to 1 times/day of use              |

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|   |  |
|---|--|
|   | covers skin contact area up to (cm2): 428,00 cm2     |
|   | For each use event, assumes swallowed amount of 35 g |
|   | Covers use under typical household ventilation.      |
|   | Covers use in room size of 20 m3                     |
|   | Covers exposure up to 0,17 hours/event               |
| Welding and soldering products (with flux coatings or flux cores.), flux products | Covers concentrations up to 20 %                     |
|   | covers use up to 365 day/year                        |
|   | Covers use up to 1 times/day of use                  |
|   | For each use event, covers amount up to 12 g         |
|   | Covers use under typical household ventilation.      |
|   | Covers use in room size of 20 m3                     |
|   | Covers exposure up to 1,00 hours/event               |

| Section 2.2   | Control of Environmental Exposure |
|---|-----------------------------------|
| Substance is complex UVCB.  |                                   |
| Predominantly hydrophobic.  |                                   |
| <b>Amounts Used</b>   |                                   |
| Fraction of EU tonnage used in region:  | 0,1                               |
| Regional use tonnage (tonnes/year):   | 1,2E-02                           |
| Fraction of Regional tonnage used locally:  | 5,0E-04                           |
| Annual site tonnage (tonnes/year):  | 6,2E-06                           |
| Maximum daily site tonnage (kg/day):  | 1,7E-05                           |
| <b>Frequency and Duration of Use</b>  |                                   |
| Continuous release.   |                                   |
| Emission Days (days/year):  | 365                               |
| <b>Environmental factors not influenced by risk management</b>  |                                   |
| Local freshwater dilution factor:   | 10                                |
| Local marine water dilution factor:   | 100                               |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |                                   |
| Release fraction to air from process (initial release prior to RMM):  | 0,95                              |
| Release fraction to wastewater from process (initial release prior to RMM):                                 | 2,5E-02                           |
| Release fraction to soil from process (initial release prior to RMM):                                       | 2,5E-02                           |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                  |                                   |
| Risk from environmental exposure is driven by freshwater.   |                                   |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                               | 94,6                              |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 4,0E-03                           |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2,0E+03                           |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |                                   |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |                                   |
| <b>Conditions and measures related to external recovery of waste</b>  |                                   |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |                                   |

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Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
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|   |  |
|---|--|
| <b>SECTION 3</b>  | <b>EXPOSURE ESTIMATION</b>                                     |
| <b>Section 3.1 - Health</b>   |  |
| The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated.  |  |
| <b>Section 3.2 -Environment</b>   |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.  |  |
| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |
| <b>Section 4.2 -Environment</b>   |  |
| Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.  |  |
| Further details on scaling and control technologies are provided in SpERC factsheet ( <a href="http://cefic.org">http://cefic.org</a> ).  |  |

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### Exposure Scenario - Consumer

|                         |   |
|-------------------------|---|
| <b>300000001110</b>     |   |
| <b>SECTION 1</b>        | <b>EXPOSURE SCENARIO TITLE</b>  |
| <b>Title</b>            | Uses in Coatings - Consumer   |
| <b>Use Descriptor</b>   | <b>Sector of Use:</b> SU21<br><b>Product Categories:</b> PC1, PC4, PC8 (excipient only), PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34<br><b>Environmental Release Categories:</b> ERC8a, ERC8d, ESVOC SpERC 8.3c.v1 |
| <b>Scope of process</b> | Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.       |

|   |   |        |
|---|---|--------|
| SECTION 2   | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |        |
| Section 2.1   | Control of Consumer Exposure                        |        |
| Product Characteristics   |   |        |
| Physical form of product  | Liquid, vapour pressure > 10 kPa at STP             |        |
| Concentration of the Sub-stance in Mixture/Article  | Unless stated otherwise.                            |        |
|   | Covers concentration up to (%): 100 %               |        |
| Amounts Used  |   |        |
| Unless stated otherwise.  |   |        |
| for each use event, covers amount up to (g):  |   | 13.800 |
| covers skin contact area (cm2):   |   | 857,5  |
| Frequency and Duration of Use   |   |        |
| Unless stated otherwise.  |   |        |
| Covers use up to (days/year):   |   | 365    |
| covers use up to (times/day of use):  |   | 1      |
| Exposure (hours/event):   |   | 6      |
| Other Operational Conditions affecting Exposure   |   |        |
| Unless stated otherwise.<br>Covers use at ambient temperatures.<br>Covers use in room size of 20m3<br>Covers use under typical household ventilation. |   |        |
| Product Categories  | OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES |        |
| Adhesives, sealants Glues, hobby use.   | Covers concentrations up to 30 %                    |        |
|   | covers use up to 365 day/year                       |        |
|   | covers use up to 1 times/day of use                 |        |
|   | covers skin contact area up to (cm2): 35,73 cm2     |        |
|   | For each use event, covers amount up to 9 g         |        |
|   | Covers use in room size of 20 m3                    |        |

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|  | Covers exposure up to 4 hours/event                                    |
|  | Covers use under typical household ventilation.                        |
| Adhesives, sealants Glues<br>DIY-use (carpet glue, tile<br>glue, wood parquet glue). | Covers concentrations up to 30 %                                       |
|  | covers use up to 1 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 110,00 cm2                       |
|  | For each use event, covers amount up to 6.390 g                        |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 6,00 hours/event                                 |
| Adhesives, sealants Glue<br>from spray.  | Covers concentrations up to 30 %                                       |
|  | covers use up to 6 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 35,73 cm2                        |
|  | For each use event, covers amount up to 85,05 g                        |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 4,00 hours/event                                 |
| Adhesives, sealants Seal-<br>ants.   | Covers concentrations up to 30 %                                       |
|  | covers use up to 365 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 35,73 cm2                        |
|  | For each use event, covers amount up to 75 g                           |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 1,00 hours/event                                 |
|  | Avoid using when windows closed.                                       |
| Anti-Freeze and de-icing<br>products Washing car win-<br>dow.                        | Covers concentrations up to 1 %  |
|  | covers use up to 365 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | For each use event, covers amount up to 0,5 g                          |
|  | Covers use in a one car garage (34 m3) under typical ventila-<br>tion. |
|  | Covers use in room size of 34 m3                                       |
|  | Covers exposure up to 0,02 hours/event                                 |
| Anti-Freeze and de-icing<br>products Pouring into radia-<br>tor.                     | Covers concentrations up to 10 %                                       |
|  | covers use up to 365 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 428,00 cm2                       |
|  | For each use event, covers amount up to 2.000 g                        |
|  | Covers use in a one car garage (34 m3) under typical ventila-<br>tion. |
|  | Covers use in room size of 34 m3                                       |

# SAFETY DATA SHEET

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|--|---|
|  | Covers exposure up to 0,17 hours/event                            |
| Anti-Freeze and de-icing products Lock de-icer.  | Covers concentrations up to 50 %                                  |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 214,40 cm2                  |
|  | For each use event, covers amount up to 4 g                       |
|  | Covers use in a one car garage (34 m3) under typical ventilation. |
|  | Covers use in room size of 34 m3                                  |
|  | Covers exposure up to 0,25 hours/event                            |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Laundry and dish washing products.  | Covers concentrations up to 5 %                                   |
|  | covers use up to 365 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 857,50 cm2                  |
|  | For each use event, covers amount up to 15 g                      |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,50 hours/event                            |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners). | Covers concentrations up to 5 %                                   |
|  | covers use up to 128 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 857,50 cm2                  |
|  | For each use event, covers amount up to 27 g                      |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,33 hours/event                            |
| Biocidal products (e.g. Disinfectants, pest control) (excipient only). Cleaners, trigger sprays (all purpose cleaners, sanitary products, glass cleaners).   | Covers concentrations up to 15 %                                  |
|  | covers use up to 128 day/year                                     |
|  | Covers use up to 1 times/day of use                               |
|  | covers skin contact area up to (cm2): 428,00 cm2                  |
|  | For each use event, covers amount up to 35 g                      |
|  | Covers use under typical household ventilation.                   |
|  | Covers use in room size of 20 m3                                  |
|  | Covers exposure up to 0,17 hours/event                            |
| Coatings and paints, thin-   | Covers concentrations up to 1,5 %                                 |



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|  |  |
|--|--|
| ners, paint removers Wa-<br>terborne latex wall paint.   |  |
|  | covers use up to 4 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 428,75 cm2                       |
|  | For each use event, covers amount up to 2.760 g                        |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 2,20 hours/event                                 |
| Coatings and paints, thin-<br>ners, paint removers Sol-<br>vent rich, high solid, water<br>borne paint.            | Covers concentrations up to 27,5 %                                     |
|  | covers use up to 6 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 428,75 cm2                       |
|  | For each use event, covers amount up to 744 g                          |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 2,20 hours/event                                 |
| Coatings and paints, thin-<br>ners, paint removers Aero-<br>sol spray can.   | Covers concentrations up to 50 %                                       |
|  | covers use up to 2 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | For each use event, covers amount up to 215 g                          |
|  | Covers use in a one car garage (34 m3) under typical ventila-<br>tion. |
|  | Covers use in room size of 34 m3                                       |
|  | Covers exposure up to 0,33 hours/event                                 |
| Coatings and paints, thin-<br>ners, paint removers Re-<br>movers (paint-, glue-, wall<br>paper-, sealant-remover). | Covers concentrations up to 50 %                                       |
|  | covers use up to 3 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 857,50 cm2                       |
|  | For each use event, covers amount up to 491 g                          |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 2,00 hours/event                                 |
| Fillers, Putties Fillers and<br>putty.   | Covers concentrations up to 2 %  |
|  | covers use up to 12 day/year   |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 35,73 cm2                        |
|  | For each use event, covers amount up to 85 g                           |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 4,00 hours/event                                 |
| Fillers, Putties Plasters and  | Covers concentrations up to 2 %  |

# SAFETY DATA SHEET

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|   |   |
|---|---|
| floor equalizers.   |   |
|   | covers use up to 12 day/year                                      |
|   | Covers use up to 1 times/day of use                               |
|   | covers skin contact area up to (cm2): 857,50 cm2                  |
|   | For each use event, covers amount up to 13.800 g                  |
|   | Covers use under typical household ventilation.                   |
|   | Covers use in room size of 20 m3                                  |
|   | Covers exposure up to 2,00 hours/event                            |
| Fillers, Putties Modelling clay.  | Covers concentrations up to 1 %                                   |
|   | covers use up to 365 day/year                                     |
|   | Covers use up to 1 times/day of use                               |
|   | covers skin contact area up to (cm2): 254,40 cm2                  |
|   | For each use event, assumes swallowed amount of 1 g               |
| Finger paints   | Covers concentrations up to 1,25 %                                |
|   | covers use up to 365 day/year                                     |
|   | Covers use up to 1 times/day of use                               |
|   | covers skin contact area up to (cm2): 254,40 cm2                  |
|   | For each use event, assumes swallowed amount of 1,35 g            |
| Non-metal-surface treatment products Waterborne latex wall paint.                 | Covers concentrations up to 1,5 %                                 |
|   | covers use up to 4 day/year                                       |
|   | Covers use up to 1 times/day of use                               |
|   | covers skin contact area up to (cm2): 428,75 cm2                  |
|   | For each use event, covers amount up to 2.760 g                   |
|   | Covers use under typical household ventilation.                   |
|   | Covers use in room size of 20 m3                                  |
|   | Covers exposure up to 2,20 hours/event                            |
| Non-metal-surface treatment products Solvent rich, high solid, water borne paint. | Covers concentrations up to 27,5 %                                |
|   | covers use up to 6 day/year                                       |
|   | Covers use up to 1 times/day of use                               |
|   | covers skin contact area up to (cm2): 428,75 cm2                  |
|   | For each use event, covers amount up to 744 g                     |
|   | Covers use under typical household ventilation.                   |
|   | Covers use in room size of 20 m3                                  |
|   | Covers exposure up to 2,20 hours/event                            |
| Non-metal-surface treatment products Aerosol spray can.                           | Covers concentrations up to 50 %                                  |
|   | covers use up to 2 day/year                                       |
|   | Covers use up to 1 times/day of use                               |
|   | For each use event, covers amount up to 215 g                     |
|   | Covers use in a one car garage (34 m3) under typical ventilation. |
|   | Covers use in room size of 34 m3                                  |
|   | Covers exposure up to 0,33 hours/event                            |
| Non-metal-surface treat-  | Covers concentrations up to 50 %                                  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version  
6.7

Revision Date:  
28.03.2024

SDS Number:  
800001007476

Date of last issue: 11.03.2024  
Print Date 04.04.2024

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| ment products Removers<br>(paint-, glue-, wall paper-,<br>sealant-remover).  |  |
|  | covers use up to 3 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 857,50 cm2                       |
|  | For each use event, covers amount up to 491 g                          |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 2,00 hours/event                                 |
| Ink and toners   | Covers concentrations up to 10 %                                       |
|  | covers use up to 365 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 71,40 cm2                        |
|  | For each use event, covers amount up to 40 g                           |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 2,20 hours/event                                 |
| Leather tanning, dye, finish-<br>ing, impregnation and care<br>products Polishes, wax /<br>cream (floor, furniture,<br>shoes). | Covers concentrations up to 50 %                                       |
|  | covers use up to 29 day/year   |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 430,00 cm2                       |
|  | For each use event, covers amount up to 56 g                           |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 1,23 hours/event                                 |
| Leather tanning, dye, finish-<br>ing, impregnation and care<br>products Polishes, spray<br>(furniture, shoes).                 | Covers concentrations up to 50 %                                       |
|  | covers use up to 8 day/year  |
|  | Covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 430,00 cm2                       |
|  | For each use event, covers amount up to 56 g                           |
|  | Covers use under typical household ventilation.                        |
|  | Covers use in room size of 20 m3                                       |
|  | Covers exposure up to 0,33 hours/event                                 |
| Lubricants, greases, re-<br>lease products Liquids.  | Covers concentrations up to 100 %                                      |
|  | covers use up to 4 day/year  |
|  | covers use up to 1 times/day of use                                    |
|  | covers skin contact area up to (cm2): 468,00 cm2                       |
|  | For each use event, covers amount up to 2.200 g                        |
|  | Covers use in a one car garage (34 m3) under typical ventila-<br>tion. |
|  | Covers use in room size of 34 m3                                       |
|  | Covers exposure up to 0,17 hours/event                                 |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

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|   |  |
|---|--|
| Lubricants, greases, re-release products Pastes.  | Covers concentrations up to 20 %                 |
|   | covers use up to 10 day/year                     |
|   | Covers use up to 1 times/day of use              |
|   | covers skin contact area up to (cm2): 468,00 cm2 |
|   | For each use event, covers amount up to 34 g     |
|   | Covers exposure up to 4 hours/event              |
| Lubricants, greases, re-release products Sprays.  | Covers concentrations up to 50 %                 |
|   | covers use up to 6 day/year                      |
|   | Covers use up to 1 times/day of use              |
|   | covers skin contact area up to (cm2): 428,75 cm2 |
|   | For each use event, covers amount up to 73 g     |
|   | Covers use under typical household ventilation.  |
|   | Covers use in room size of 20 m3                 |
|   | Covers exposure up to 0,17 hours/event           |
| Polishes and wax blends<br>Polishes, wax / cream<br>(floor, furniture, shoes).                  | Covers concentrations up to 50 %                 |
|   | covers use up to 29 day/year                     |
|   | covers use up to 1 times/day of use              |
|   | covers skin contact area up to (cm2): 430,00 cm2 |
|   | For each use event, covers amount up to 142 g    |
|   | Covers use under typical household ventilation.  |
|   | Covers use in room size of 20 m3                 |
|   | Covers exposure up to 1,23 hours/event           |
| Polishes and wax blends<br>Polishes, spray (furniture, shoes).                                  | Covers concentrations up to 50 %                 |
|   | covers use up to 8 day/year                      |
|   | Covers use up to 1 times/day of use              |
|   | covers skin contact area up to (cm2): 430,00 cm2 |
|   | For each use event, covers amount up to 35 g     |
|   | Covers use under typical household ventilation.  |
|   | Covers use in room size of 20 m3                 |
|   | Covers exposure up to 0,33 hours/event           |
| Textile dyes, finishing and impregnating products; including bleaches and other processing aids | Covers concentrations up to 10 %                 |
|   | covers use up to 365 day/year                    |
|   | Covers use up to 1 times/day of use              |
|   | covers skin contact area up to (cm2): 857,50 cm2 |
|   | For each use event, covers amount up to 115 g    |
|   | Covers use under typical household ventilation.  |
|   | Covers use in room size of 20 m3                 |
|   | Covers exposure up to 1,00 hours/event           |

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| <b>Section 2.2</b>         | <b>Control of Environmental Exposure</b> |
| Substance is complex UVCB. |  |
| Predominantly hydrophobic. |  |

# SAFETY DATA SHEET

According to EC No 1907/2006 as amended as at the date of this SDS

## ShellSol A150

Version 6.7      Revision Date: 28.03.2024      SDS Number: 800001007476      Date of last issue: 11.03.2024  
Print Date 04.04.2024

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| <b>Amounts Used</b>   |         |
| Fraction of EU tonnage used in region:  | 0,1     |
| Regional use tonnage (tonnes/year):   | 5,1     |
| Fraction of Regional tonnage used locally:  | 5,0E-04 |
| Annual site tonnage (tonnes/year):  | 2,6E-03 |
| Maximum daily site tonnage (kg/day):  | 7,0E-03 |
| <b>Frequency and Duration of Use</b>  |         |
| Continuous release.   |         |
| Emission Days (days/year):  | 365     |
| <b>Environmental factors not influenced by risk management</b>  |         |
| Local freshwater dilution factor:   | 10      |
| Local marine water dilution factor:   | 100     |
| <b>Other Operational Conditions affecting Environmental Exposure</b>  |         |
| Release fraction to air from process (initial release prior to RMM):  | 0,985   |
| Release fraction to wastewater from process (initial release prior to RMM):                                 | 1,0E-02 |
| Release fraction to soil from process (initial release prior to RMM):                                       | 5,0E-03 |
| <b>Conditions and Measures related to municipal sewage treatment plant</b>                                  |         |
| Risk from environmental exposure is driven by freshwater.   |         |
| Estimated substance removal from wastewater via domestic sewage treatment (%)                               | 94,6    |
| Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) | 1,8     |
| Assumed domestic sewage treatment plant flow (m3/d)   | 2.000   |
| <b>Conditions and Measures related to external treatment of waste for disposal</b>                          |         |
| External treatment and disposal of waste should comply with applicable local and/or regional regulations.   |         |
| <b>Conditions and measures related to external recovery of waste</b>  |         |
| External recovery and recycling of waste should comply with applicable local and/or regional regulations.   |         |

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| <b>SECTION 3</b>   | <b>EXPOSURE ESTIMATION</b> |
| <b>Section 3.1 - Health</b>  |                            |
| The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated. |                            |

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| <b>Section 3.2 -Environment</b>  |  |
| The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model. |  |

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| <b>SECTION 4</b>  | <b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b> |
| <b>Section 4.1 - Health</b>   |  |
| Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.<br>Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. |  |

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### Section 4.2 -Environment

Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.

Further details on scaling and control technologies are provided in SpERC factsheet (<http://cefic.org>).