

# SAFETY DATA SHEET

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

## Baseoil- Petroleum Ether (BO8-PE Blend 1:1- %w/w)

Version 1.0

Revision Date 02.03.2020

Print Date 29.08.2022

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

#### 1.1 Product identifier

Trade name : Baseoil- Petroleum Ether (BO8-PE Blend 1:1- %w/w)

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

Use of the : For R & D use only.

Substance/Mixture

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 : **Shell Chemicals Europe B.V.**  
PO Box 2334  
3000 CH Rotterdam  
Netherlands

Telephone :  
Telefax :  
Email Contact for Safety Data :  
Sheet

#### 1.4 Emergency telephone number

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Aspiration hazard, Category 1

H304: May be fatal if swallowed and enters airways.

Skin irritation, Category 2

H315: Causes skin irritation.

Specific target organ toxicity - single exposure, Category 3, Narcotic effects

H336: May cause drowsiness or dizziness.

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)

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Hazard pictograms



Signal word

: Danger

Hazard statements

:  
H226 PHYSICAL HAZARDS:  
Flammable liquid and vapour.  
H304 HEALTH HAZARDS:  
May be fatal if swallowed and enters  
airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
ENVIRONMENTAL HAZARDS:  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard  
Statements

: EUH066 Repeated exposure may cause skin  
dryness or cracking.

Precautionary statements

: **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks,  
open flames and other ignition sources. No  
smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving  
equipment.  
P241 Use explosion-proof electrical/ ventilating/  
lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing dust/ fume/ gas/ mist/  
vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated  
area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/  
eye protection/ face protection/ hearing  
protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off  
immediately all contaminated clothing.  
Rinse skin with water.  
P370 + P378 In case of fire: Use appropriate media to  
extinguish.  
P301 + P310 IF SWALLOWED: Immediately call a  
POISON CENTER/doctor.  
P331 Do NOT induce vomiting.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P332 + P313 If skin irritation occurs: Get medical advice/  
attention.  
P362 + P364 Take off contaminated clothing and wash it

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|                                |                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| P304 + P340                    | before reuse.<br>IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                 |
| P312                           | Call a POISON CENTER/ doctor if you feel unwell.                                                                            |
| P391                           | Collect spillage.                                                                                                           |
| <b>Storage:</b><br>P403 + P233 | Store in a well-ventilated place. Keep container tightly closed.                                                            |
| P405                           | Store locked up.                                                                                                            |
| P235                           | Keep cool.                                                                                                                  |
| <b>Disposal:</b><br>P501       | Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations. |

### 2.3 Other hazards

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

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

### 3.2 Mixtures

#### Hazardous components

| Chemical name                              | CAS-No.<br>EC-No.<br>Registration<br>number | Classification<br>(REGULATION<br>(EC) No<br>1272/2008)                                                  | Concentration<br>[%] |
|--------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------|
| C13-C30 Fischer-Tropsch Derived Oil        | 848301-69-9                                 | Asp. Tox.1; H304                                                                                        | >= 0,5 - <= 2        |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | 931-254-9<br>01-2119484651-34               | Flam. Liq.2; H225<br>Asp. Tox.1; H304<br>Skin Irrit.2; H315<br>STOT SE3; H336<br>Aquatic Chronic2; H411 | >= 50 - <= 100       |
| pentane                                    | 109-66-0<br>203-692-4<br>01-2119459286-30   | Flam. Liq.1; H224<br>Asp. Tox.1; H304<br>STOT SE3; H336<br>Aquatic Chronic2; H411                       | >= 25 - <= 50        |

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For explanation of abbreviations see section 16.

### 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. Immediately flush skin with large amounts of water for at least 15 minutes, and follow by washing with soap and water if available. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.                                                                                                                                                                                                  |
| In case of eye contact     | : Flush eye with copious quantities of water.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>If persistent irritation occurs, obtain medical attention.                                                                                                                                                                                                                                                                                                         |
| If swallowed               | : Call emergency number for your location / facility.<br>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.<br>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.<br>Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.<br>Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.<br>If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.<br>If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical |
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facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

### 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.

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## 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 firefighting : 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 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.

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## 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.

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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 materials 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 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 Chapter 8 of this Safety Data Sheet.,  
For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.

## SECTION 7: Handling and storage

General Precautions : Avoid breathing of or direct contact with material. Only use in

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well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.  
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.  
Ensure that all local regulations regarding handling and storage facilities are followed.

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid inhaling vapour and/or mists.  
Avoid contact with skin, eyes and clothing.  
Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.  
Use local exhaust ventilation if there is risk of inhalation of vapours, mists or aerosols.  
Bulk storage tanks should be diked (bunded).  
When using do not eat or drink.

The vapour is heavier than air, spreads along the ground and distant ignition is possible.

Product Transfer : 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 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.

### 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.

Other data : 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

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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 Ch16 and/or the annexes for the registered uses under REACH.

See additional references that provide safe handling practices 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   |
|---------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------|---------|
| Isohexanes          |                                                                                                           | TWA                           | 900 mg/m <sup>3</sup>              | EU HSPA |
| pentane             | 109-66-0                                                                                                  | KGV                           | 750 ppm<br>2.000 mg/m <sup>3</sup> | SE AFS  |
| Further information | Indicative short term limit value shall be used as a recommended maximum value and should not be exceeded |                               |                                    |         |



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|         |          |     |                        |        |
|---------|----------|-----|------------------------|--------|
| pentane | 109-66-0 | NGV | 600 ppm<br>1.800 mg/m3 | SE AFS |
|---------|----------|-----|------------------------|--------|

### Biological occupational exposure limits

No biological limit allocated.

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

No DNEL value has been established.

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

Exposure assessments have not been presented for the environment therefore PNEC values not required.

### Monitoring Methods

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. For some substances biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples analysed by an accredited laboratory.

Examples of sources of recommended exposure measurement methods are given below or contact the supplier. Further national methods may be available.

National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods  
<http://www.cdc.gov/niosh/>

Occupational Safety and Health Administration (OSHA), USA: Sampling and Analytical Methods  
<http://www.osha.gov/>

Health and Safety Executive (HSE), UK: Methods for the Determination of Hazardous Substances  
<http://www.hse.gov.uk/>

Institut für Arbeitsschutz Deutschen Gesetzlichen Unfallversicherung (IFA) , Germany  
<http://www.dguv.de/inhalt/index.jsp>

L'Institut National de Recherche et de Sécurité, (INRS), France <http://www.inrs.fr/accueil>

## 8.2 Exposure controls

**Engineering measures** Read in conjunction with the Exposure Scenario for your specific use contained in the Annex.

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.

Eye washes and showers for emergency use.

Firewater monitors and deluge systems are recommended.

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

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:

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.

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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.  
Retain drain downs in sealed storage pending disposal or for 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 : Wear goggles for use against liquids and gas.  
Approved to EU Standard EN166.

If a local risk assessment deems it so then chemical splash goggles may not be required and safety glasses may provide adequate eye protection.

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: Viton. Incidental contact/Splash protection: Nitrile rubber. PVC. 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.

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Skin and body protection : Chemical resistant gloves/gauntlets, boots, and apron.

Protective clothing approved to EU Standard EN14605.

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 AX boiling point < 65°C (149°F)] meeting EN14387.

Thermal hazards : Not applicable

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.

### Environmental exposure controls

General advice : Read in conjunction with the Exposure Scenario for your specific use contained in the Annex. Local guidelines on emission limits for volatile substances must be observed for the discharge of exhaust air containing vapour. Minimise release to the environment. An environmental assessment must be made to ensure compliance with local environmental legislation. Information on accidental release measures are to be found in section 6. Take appropriate measures to fulfil the requirements of relevant environmental protection legislation. Avoid contamination of the environment by following advice given in Section 6. If necessary, prevent undissolved material from being discharged to waste water. Waste water should be treated in a municipal or industrial waste water treatment plant before discharge to surface water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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|                                        |                                                                       |
|----------------------------------------|-----------------------------------------------------------------------|
| Appearance                             | : liquid                                                              |
| Colour                                 | : colourless                                                          |
| Odour                                  | : Hydrocarbon                                                         |
| Odour Threshold                        | : Data not available                                                  |
| pH                                     | : Data not available                                                  |
| Melting point/freezing point           | : Data not available                                                  |
| Boiling point/boiling range            | : 40 - 280 °C                                                         |
| Flash point                            | : < 30 °C<br>Other information: Static-accumulating flammable liquid. |
| Evaporation rate                       | : Data not available                                                  |
| Upper explosion limit                  | : 7 %(V)                                                              |
| Lower explosion limit                  | : 1 %(V)                                                              |
| Vapour pressure                        | : Data not available                                                  |
| Relative vapour density                | : Data not available                                                  |
| Relative density                       | : Data not available                                                  |
| Density                                | : 0,730 g/cm3                                                         |
| Solubility(ies)                        |                                                                       |
| Water solubility                       | : immiscible                                                          |
| Partition coefficient: n-octanol/water | : Data not available                                                  |
| Auto-ignition temperature              | : Data not available                                                  |
| Decomposition temperature              | : Data not available                                                  |
| Viscosity                              |                                                                       |
| Viscosity, dynamic                     | : Data not available                                                  |
| Viscosity, kinematic                   | : 2,54 mm2/s                                                          |
| Explosive properties                   | : no data available                                                   |
| Oxidizing properties                   | : Data not available                                                  |

### 9.2 Other information

|                 |                                                                                                                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Surface tension | : Data not available                                                                                                                                  |
| Conductivity    | : Low conductivity: < 100 pS/m<br>The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if |

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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 can greatly influence the conductivity of a liquid

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 : 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 toxicological effects

Basis for assessment : Information given is based on data obtained from similar substances.

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

### Acute toxicity

#### Product:

Acute oral toxicity : LD 50 Rat, male: > 5.000 mg/kg  
Method: Test(s) equivalent or similar to OECD Test Guideline 401  
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC 50 Rat, male: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Test(s) equivalent or similar to OECD Test Guideline 403  
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD 50 Rabbit, male: > 5.000 mg/kg  
Method: Test(s) equivalent or similar to OECD Test Guideline 402  
Remarks: Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

#### Product:

Species: Rabbit  
Method: Test(s) equivalent or similar to OECD Test Guideline 404  
Remarks: Causes skin irritation., Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/eye irritation

#### Product:

Species: Rabbit  
Method: Test(s) equivalent or similar to OECD Test Guideline 405  
Remarks: Slightly irritating., Insufficient to classify., Vapours may be irritating to the eye.

### Respiratory or skin sensitisation

#### Product:

Species: Mouse  
Method: Test(s) equivalent or similar to OECD Test Guideline 429  
Remarks: Based on available data, the classification criteria are not met.

### Germ cell mutagenicity

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### Product:

- : Method: Test(s) equivalent or similar to OECD Guideline 471  
Remarks: Based on available data, the classification criteria are not met.
- : Method: Test(s) equivalent or similar to OECD Test Guideline 476  
Remarks: Based on available data, the classification criteria are not met.
- : Method: Test(s) equivalent or similar to OECD Test Guideline 473  
Remarks: Based on available data, the classification criteria are not met.
- : Test species: Rat Method: Test(s) equivalent or similar to OECD Test Guideline 475  
Remarks: Based on available data, the classification criteria are not met.

### Carcinogenicity

#### Product:

Species: Rat, (male and female)

Application Route: Inhalation

Method: Test(s) equivalent or similar to OECD Test Guideline 451

Remarks: Weight of evidence does not support classification as a carcinogen, Tumours produced in animals are not considered relevant to humans., Not a carcinogen.

Species: Mouse, (male and female)

Application Route: Inhalation

Method: Test(s) equivalent or similar to OECD Test Guideline 451

Remarks: Weight of evidence does not support classification as a carcinogen, Tumours produced in animals are not considered relevant to humans., Not a carcinogen.

| Material                                   | GHS/CLP Carcinogenicity Classification |
|--------------------------------------------|----------------------------------------|
| C13-C30 Fischer-Tropsch Derived Oil        | No carcinogenicity classification.     |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | No carcinogenicity classification.     |
| pentane                                    | No carcinogenicity classification.     |

### Reproductive toxicity

#### Product:

- : Species: Rat  
Sex: male and female  
Application Route: Inhalation

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Method: Equivalent or similar to OECD Test Guideline 416  
Remarks: Suspected of damaging fertility or the unborn child.,  
Causes foetotoxicity in animals at doses which are maternally  
toxic., Affects reproductive system in animals at doses which  
produce other toxic effects.

Effects on foetal  
development

: Species: Rat, female  
Application Route: Inhalation  
Method: Test(s) equivalent or similar to OECD Test Guideline  
414  
Remarks: Based on available data, the classification criteria  
are not met.  
Species: Mouse, female  
Application Route: Inhalation  
Method: Test(s) equivalent or similar to OECD Test Guideline  
414  
Remarks: Based on available data, the classification criteria  
are not met.

### STOT - single exposure

#### Product:

Exposure routes: Inhalation  
Target Organs: Nervous system  
Remarks: May cause drowsiness or dizziness.

### STOT - repeated exposure

#### Product:

Exposure routes: Inhalation  
Target Organs: Nervous system  
Remarks: May cause damage to organs or organ systems through prolonged or repeated  
exposure., Central nervous system: repeated exposure affects the nervous system., Peripheral  
nervous system: causes peripheral neuropathy which can be potentiated by ketones., Kidney:  
caused kidney effects in male rats which are not considered relevant to humans

### Repeated dose toxicity

#### Product:

Rat, male:  
Application Route: Oral  
Method: Literature data  
Target Organs: No specific target organs noted

Rat, male and female:  
Application Route: Inhalation  
Test atmosphere: vapour



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Method: Test(s) equivalent or similar to OECD Test Guideline 413  
Target Organs: Nervous system

### Aspiration toxicity

#### Product:

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

### Further information

#### Product:

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

#### Summary on evaluation of the CMR properties

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

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

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

---

## SECTION 12: Ecological information

### 12.1 Toxicity

Basis for assessment : Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

#### Product:

Toxicity to fish (Acute toxicity) : EC50 (Oncorhynchus mykiss (rainbow trout)): 13,7 mg/l  
Method: Based on quantitative structure-activity relationship (QSAR) modelling  
Remarks: Harmful  
LC/EC/IC50 >10 - <=100 mg/l

Toxicity to crustacean (Acute toxicity) : EL50 (Daphnia magna (Water flea)): 3,87 mg/l  
Exposure time: 48 h  
Method: Information given is based on data obtained from similar substances.  
Remarks: Toxic  
LL/EL/IL50 > 1 <= 10 mg/l

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|                                                   |                                                                                                                                                                                              |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to algae/aquatic plants (Acute toxicity) | : EL50 (Pseudokirchneriella subcapitata (algae)): 55 mg/l<br>Method: Information given is based on data obtained from similar substances.<br>Remarks: Harmful<br>LC/EC/IC50 >10 - <=100 mg/l |
| Toxicity to fish (Chronic toxicity)               | : Remarks: Data not available                                                                                                                                                                |
| Toxicity to crustacean (Chronic toxicity)         | : Remarks: Data not available                                                                                                                                                                |
| Toxicity to microorganisms (Acute toxicity)       | : Remarks: Data not available                                                                                                                                                                |

### 12.2 Persistence and degradability

#### Product:

|                  |                                                                                                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : Biodegradation: 98 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301F<br>Remarks: Readily biodegradable., Oxidises rapidly by photo-chemical reactions in air. |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 12.3 Bioaccumulative potential

#### Product:

|                                        |                                                |
|----------------------------------------|------------------------------------------------|
| Bioaccumulation                        | : Remarks: Has the potential to bioaccumulate. |
| Partition coefficient: n-octanol/water | : Remarks: Data not available                  |

### 12.4 Mobility in soil

#### Product:

|          |                                                                                                          |
|----------|----------------------------------------------------------------------------------------------------------|
| Mobility | : Remarks: Floats on water., If it enters soil, it will adsorb to soil particles and will not be mobile. |
|----------|----------------------------------------------------------------------------------------------------------|

### 12.5 Results of PBT and vPvB assessment

#### Product:

|            |                                                                                                                                                      |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Other adverse effects

#### Product:

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| Additional ecological information | : Does not have ozone depletion potential. |
|-----------------------------------|--------------------------------------------|

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### 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.
- Do not dispose into the environment, in drains or in water courses  
Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.  
Waste, spills or used product is dangerous waste.
- Disposal, transport, storage and handling should be in accordance with SE regulation Avfallsförordning (2011:927).
- 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.
- 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.
- Packing: Emptying: Place the package upside down, and tilt slightly, circa 10 degrees, to enable drainage in such a way that the lowest part of the package is at the exit orifice. On some packing an extra hole must be made. Drainage should be carried out at room temperature (at least 15 °C). Wait until the package is drip dry. Do not close package after draining. Please note the risks connected with emptying package and containers with flammable liquids. Emptied package should be ventilated in a safe place away from sparks and fire. Residues may be an explosion risk. Do not puncture, cut or weld in non-cleaned package, containers or drums.
- Local legislation  
Remarks : Suggestion for emptied package:  
15 01 02: Plastic packaging  
15 01 04 metallic packaging.  
Packages containing any remaining product and which have not been emptied until drip dry, must be handled as dangerous waste and must be well sealed before disposal.  
Suggestion for waste code:

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15 01 10: Packaging containing residues of or contaminated  
by dangerous substances

### SECTION 14: Transport information

#### 14.1 UN number

ADR : 3295  
RID : 3295  
IMDG : 3295  
IATA : 3295

#### 14.2 Proper shipping name

ADR : HYDROCARBONS, LIQUID, N.O.S.  
RID : HYDROCARBONS, LIQUID, N.O.S.  
IMDG : HYDROCARBONS, LIQUID, N.O.S.  
(Hexane, Pentane)  
  
IATA : HYDROCARBONS, LIQUID, N.O.S.

#### 14.3 Transport hazard class

ADR : 3  
RID : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

ADR  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
RID  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
IMDG  
Packing group : III  
Labels : 3  
IATA  
Packing group : III  
Labels : 3

#### 14.5 Environmental hazards

ADR  
Environmentally hazardous : yes  
RID  
Environmentally hazardous : yes  
IMDG  
Marine pollutant : yes

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### 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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category : Not applicable  
Ship type : Not applicable  
Product name : Not applicable

## SECTION 15: Regulatory information

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

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

REACH - List of substances subject to authorisation (Annex XIV) : 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.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XIV.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), annex XVII.

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work and its amendments.

Directive 1994/33/EC on the protection of young people at work and its amendments.

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding and its amendments.

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

AICS : Listed  
DSL : Listed

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|       |          |
|-------|----------|
| IECSC | : Listed |
| KECI  | : Listed |
| NZIoC | : Listed |
| PICCS | : Listed |
| TCSI  | : Listed |

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16: Other information

### REGULATION (EC) No 1272/2008

Flammable liquids, Category 3, H226  
Aspiration hazard, Category 1, H304

Skin irritation, Category 2, H315

Specific target organ toxicity - single exposure, Category 3, H336  
Long-term (chronic) aquatic hazard, Category 2, H411  
Supplemental Hazard Statements, EUH066

### Classification procedure:

On basis of test data.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.  
Expert judgement and weight of evidence determination.

### Full text of H-Statements

|      |                                                  |
|------|--------------------------------------------------|
| H224 | Extremely flammable liquid and vapour.           |
| H225 | Highly flammable liquid and vapour.              |
| H304 | May be fatal if swallowed and enters airways.    |
| H315 | Causes skin irritation.                          |
| H336 | May cause drowsiness or dizziness.               |
| H411 | Toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                 |                                                  |
|-----------------|--------------------------------------------------|
| Aquatic Chronic | Long-term (chronic) aquatic hazard               |
| Asp. Tox.       | Aspiration hazard                                |
| Flam. Liq.      | Flammable liquids                                |
| Skin Irrit.     | Skin irritation                                  |
| STOT SE         | Specific target organ toxicity - single exposure |

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

ACGIH = American Conference of Governmental Industrial Hygienists  
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
AICS = Australian Inventory of Chemical Substances  
ASTM = American Society for Testing and Materials  
BEL = Biological exposure limits  
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

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CAS = Chemical Abstracts Service  
CEFIC = European Chemical Industry Council  
CLP = Classification Packaging and Labelling  
COC = Cleveland Open-Cup  
DIN = Deutsches Institut für Normung  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
DSL = Canada Domestic Substance List  
EC = European Commission  
EC50 = Effective Concentration fifty  
ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals  
ECHA = European Chemicals Agency  
EINECS = The European Inventory of Existing Commercial Chemical Substances  
EL50 = Effective Loading fifty  
ENCS = Japanese Existing and New Chemical Substances Inventory  
EWC = European Waste Code  
GHS = Globally Harmonised System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Inhibitory Concentration fifty  
IL50 = Inhibitory Level fifty  
IMDG = International Maritime Dangerous Goods  
INV = Chinese Chemicals Inventory  
IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables  
KECI = Korea Existing Chemicals Inventory  
LC50 = Lethal Concentration fifty  
LD50 = Lethal Dose fifty per cent.  
LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading  
LL50 = Lethal Loading fifty  
MARPOL = International Convention for the Prevention of Pollution From Ships  
NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level  
OE\_HP = Occupational Exposure - High Production Volume  
PBT = Persistent, Bioaccumulative and Toxic  
PICCS = Philippine Inventory of Chemicals and Chemical Substances  
PNEC = Predicted No Effect Concentration  
REACH = Registration Evaluation And Authorisation Of Chemicals  
RID = Regulations Relating to International Carriage of Dangerous Goods by Rail  
SKIN\_DES = Skin Designation  
STEL = Short term exposure limit  
TRA = Targeted Risk Assessment  
TSCA = US Toxic Substances Control Act  
TWA = Time-Weighted Average  
vPvB = very Persistent and very Bioaccumulative

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### Further information

- Training advice : Provide adequate information, instruction and training for operators.
- Other information : A vertical bar (|) in the left margin indicates an amendment from the previous version.
- 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).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.