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

1.1 Product identifier

Trade name : ShellSol 140/165

Product code : Q5911

Registration number EU : 01-2119471843-32-0001

Synonyms : Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2%

aromatics, ShellSol D25

EC-No. : 927-241-2

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

Use of the Sub- : Industrial Solvent.

stance/Mixture Please refer to section 16 and/or the annexes for the regis-

tered 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 : Shell Chemicals Europe B.V.

PO Box 2334

3000 CH Rotterdam

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 : sccmsds@shell.com

Sheet

1.4 Emergency telephone number

+44 (0) 1235 239 670 (This telephone number is available 24 hours per day, 7 days per

week)

Poison Center Information: +358 9 471 977 (24h)

1.5 Other information

KT code : 48 Solvents, 246 Production of other chemical products

TOL code : no data available

Other information : SHELLSOL is a trademark owned by Shell Trademark Man-

agement B.V. and Shell Brands Inc. and used by affiliates of

Shell plc.

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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 air-

ways.

Specific target organ toxicity - single ex-

posure, Category 3, Narcotic effects

H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard, Cat-

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word : Danger

Hazard statements : PHYSICAL HAZARDS:

H226 Flammable liquid and vapour.

HEALTH HAZARDS:

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

ENVIRONMENTAL HAZARDS:

H412 Harmful 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. P243 Take action to prevent static discharges.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

Storage:

No precautionary phrases.

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Disposal:

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

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.

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.

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

3.1 Substances

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Not Assigned 927-241-2	<= 100

Further information

Contains:

Chemical	Identification number	Classification	Concentration (% w/w)
name			
n-Hexane	6	Flam. Liq.2; H225 Skin Irrit.2; H315 Asp. Tox.1; H304 STOT RE2; H373 STOT SE3; H336 Repr.2; H361f Aquatic Chronic2; H411	< 5

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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.

Remove contact lenses, if present and easy to do. Continue

rinsina.

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, lightheadedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness and

death.

Skin irritation signs and symptoms may include a burning sen-

sation, redness, or swelling.

No specific hazards under normal use conditions.

Eye irritation signs and symptoms may include a burning sen-

sation, redness, swelling, and/or blurred vision.

If material enters lungs, signs and symptoms may include

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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 diox-

ide, 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 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 meth-

ods

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.

Isolate hazard area and deny entry to unnecessary or unpro-

tected 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 unpro-

tected 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 bond-

ing 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

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 spe-

cialist advice.

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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 : 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.

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 stor-

age facilities are followed.

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 (≤ 1 m/s until fill pipe submerged to twice its diameter, then ≤ 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.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Refer to section 15 for any additional specific legislation cov-

ering the packaging and storage of this product.

Further information on stor-

age 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 flamma-

ble.

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 regis-

tered 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

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dearom. Mineral spirits 140 - 220	Not As- signed	TWA	1.050 mg/m3	EU HSPA

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
ShellSol 140/165 (ShellSol D25)	Workers	Dermal	Long-term systemic effects	208 mg/kg bw/day
ShellSol 140/165 (ShellSol D25)	Workers	Inhalation	Long-term systemic effects	871 mg/m3
ShellSol 140/165 (ShellSol D25)	Consumers	Dermal	Long-term systemic effects	125 mg/kg bw/day
ShellSol 140/165 (ShellSol D25)	Consumers	Inhalation	Long-term systemic effects	185 mg/m3
ShellSol 140/165 (ShellSol D25)	Consumers	Oral	Long-term systemic effects	125 mg/kg bw/day

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

Substance name		Environmental Compartment	Value
Remarks:	tion. Conv	e is a hydrocarbon with a complex, unknown or rentional methods of deriving PNECs are not a pole to identify a single representative PNEC for	ppropriate and it is

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.

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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 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 moistur-

izer is recommended.

Skin and body protection Skin protection is not required under normal conditions of

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 Stand-

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ard, and provide employee skin care programmes.

Protective clothing approved to EU Standard EN14605.

Wear antistatic and flame-retardant clothing, if a local risk

assessment deems it so.

Respiratory protection : If engineering controls do not maintain airborne concentra-

tions 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 appa-

ratus.

Where air-filtering respirators are suitable, select an appro-

priate 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 : Paraffinic

Odour Threshold : Data not available

Melting point/freezing point : < -30 °C

Boiling point/boiling range : Typical 143 - 160 °C

Flammability

Flammability (solid, gas) : Not applicable

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit / : upper flammability limit

upper flammability limit 6 %(V)

Lower explosion limit / : Lower flammability limit

Lower flammability limit 0,8 %(V)

Flash point : Typical 27 °C

Method: IP 170

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Auto-ignition temperature : 287 °C

Method: ASTM E-659

pH : Not applicable

Viscosity

Viscosity, kinematic : Typical 0,91 mm2/s (25 °C)

Method: ASTM D445

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-

octanol/water

log Pow: estimated value(s) 4 - 5,7

Vapour pressure : Typical 10 hPa (20 °C)

Typical 3 hPa (0 °C)

Typical 30 hPa (50 °C)

Relative density : Data not available

Density : Typical 750 kg/m3 (15 °C)

Method: ASTM D4052

Relative vapour density : 4,6

Particle characteristics

Particle size : Data not available

9.2 Other information

Explosives : Not applicable

Oxidizing properties : Data not available

Evaporation rate : 20

Method: DIN 53170, di-ethyl ether=1

0,56

Method: ASTM D 3539, nBuAc=1

Conductivity : Typical 0,07 pS/m at 20 °C

Method: ASTM D-4308

Low conductivity: < 100 pS/m

The conductivity of this material makes it a static accumulator., A liquid is typically considered nonconductive if its con-

ductivity is below 100 pS/m and is considered semi-

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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

Surface tension : Typical 22,2 mN/m, 20 °C, ASTM D-971

Molecular weight : 130 g/mol

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 elec-

tricity.

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.

SECTION 11: Toxicological information

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

Information on likely routes of : Exposure may occur via inhalation, ingestion, skin absorption,

exposure skin or eye contact, and accidental ingestion.

Acute toxicity

Product:

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Acute oral toxicity : LD 50 (Rat, male and female): > 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 and female): > 2 -<= 10 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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

403

Remarks: LC50 greater than near-saturated vapour concen-

tration.

Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD 50 (Rat, male and female): > 2.000 mg/kg

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

402

Remarks: Based on available data, the classification criteria

are not met.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Acute oral toxicity : LD 50 (Rat, male and female): > 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 and female): > 2 -<= 10 mg/l

Exposure time: 4 h
Test atmosphere: vapour

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

403

Remarks: LC50 greater than near-saturated vapour concen-

tration.

Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD 50 (Rat, male and female): > 2.000 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 : Moderately irritating to skin (but insufficient to classify).

Prolonged/repeated contact may cause defatting of the skin

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which can lead to dermatitis.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Species : Rabbit

Method : Test(s) equivalent or similar to OECD Test Guideline 404
Remarks : Moderately irritating to skin (but insufficient to classify).

Prolonged/repeated contact may cause defatting of the skin

which can lead to dermatitis.

Serious eye damage/eye irritation

Product:

Species : Rabbit

Method : OECD Test Guideline 405

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

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Species : Rabbit

Method : OECD Test Guideline 405

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

Respiratory or skin sensitisation

Product:

Species : Guinea pig

Method : OECD Test Guideline 406

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

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Species : Guinea pig

Method : OECD Test Guideline 406

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

Germ cell mutagenicity

Product:

Genotoxicity in vitro : 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

473

Remarks: Based on available data, the classification criteria

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are not met.

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

Remarks: Based on available data, the classification criteria

are not met.

Genotoxicity in vivo Species: Mouse

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

Remarks: Based on available data, the classification criteria

are not met.

Germ cell mutagenicity- As-

sessment

This product does not meet the criteria for classification in

categories 1A/1B.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Genotoxicity in vitro 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

Remarks: Based on available data, the classification criteria

are not met.

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

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Remarks: Based on available data, the classification criteria

are not met.

Genotoxicity in vivo Species: Mouse

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

Remarks: Based on available data, the classification criteria

are not met.

Germ cell mutagenicity- As-

sessment

This product does not meet the criteria for classification in

categories 1A/1B.

Carcinogenicity

Product:

Species Rat, male and female

Application Route Inhalation

Method Test(s) equivalent or similar to OECD Test Guideline 453 Remarks

Weight of evidence does not support classification as a car-

cinogen

Tumours produced in animals are not considered relevant to

humans.

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Not a carcinogen.

Species Mouse, male and female

Application Route Inhalation

Method Test(s) equivalent or similar to OECD Test Guideline 453 Weight of evidence does not support classification as a car-Remarks

cinogen

Tumours produced in animals are not considered relevant to

humans.

Not a carcinogen.

Carcinogenicity - Assess-

ment

This product does not meet the criteria for classification in

categories 1A/1B.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Species Rat, male and female

Application Route Inhalation

Method Test(s) equivalent or similar to OECD Test Guideline 453 Remarks Weight of evidence does not support classification as a car-

cinogen

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 453 Remarks Weight of evidence does not support classification as a car-

cinogen

Tumours produced in animals are not considered relevant to

humans.

Not a carcinogen.

Carcinogenicity - Assess-

ment

This product does not meet the criteria for classification in

categories 1A/1B.

Material	GHS/CLP Carcinogenicity Classification
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	No carcinogenicity classification.
n-Hexane	No carcinogenicity classification.

Reproductive toxicity

Product:

Effects on fertility Species: Rat

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Sex: male and female Application Route: Oral

Method: OECD Test Guideline 415

Remarks: Based on available data, the classification criteria

are not met.

Reproductive toxicity - As-

sessment

This product does not meet the criteria for classification in

categories 1A/1B.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Effects on fertility : Species: Rat

Sex: male and female Application Route: Oral

Method: OECD Test Guideline 415

Remarks: Based on available data, the classification criteria

are not met.

Reproductive toxicity - As-

sessment

This product does not meet the criteria for classification in

categories 1A/1B.

STOT - single exposure

Product:

Exposure routes : Inhalation

Target Organs : Central nervous system

Remarks : May cause drowsiness or dizziness.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Exposure routes : Inhalation

Target Organs : Central nervous system

Remarks : May cause drowsiness or dizziness.

STOT - repeated exposure

Product:

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

Kidney: caused kidney effects in male rats which are not con-

sidered relevant to humans

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

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

Kidney: caused kidney effects in male rats which are not con-

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sidered relevant to humans

Repeated dose toxicity

Product:

Species : Rat, male and female

Application Route : Oral

Method : Test(s) equivalent or similar to OECD Test Guideline 408

Target Organs : No specific target organs noted

Species : Rat, male and female

Application Route : Inhalation Test atmosphere : vapour

Method : Test(s) equivalent or similar to OECD Test Guideline 413

Target Organs : No specific target organs noted

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Species : Rat, male and female

Application Route : Oral

Method : Test(s) equivalent or similar to OECD Test Guideline 408

Target Organs : No specific target organs noted

Species : Rat, male and female

Application Route : Inhalation Test atmosphere : vapour

Method : Test(s) equivalent or similar to OECD Test Guideline 413

Target Organs : No specific target organs noted

Aspiration toxicity

Product:

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

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

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 consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Further information

Product:

Remarks Classifications by other authorities under varying regulatory

frameworks may exist.

Remarks Unless indicated otherwise, the data presented is representa-

tive of the product as a whole, rather than for individual com-

ponent(s).

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Remarks Classifications by other authorities under varying regulatory

frameworks may exist.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 -< 30 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Harmful

LL/EL/IL50 > 10 <= 100 mg/l

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 22 - 46 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Harmful

LL/EL/IL50 > 10 <= 100 mg/l

EL50 (Pseudokirchneriella subcapitata (algae)): > 1.000 mg/l Toxicity to algae/aquatic plants

Exposure time: 72 h

Method: OECD Test Guideline 201 Remarks: Practically non toxic:

LC/EC/IC50 > 100 mg/l

Toxicity to fish (Chronic tox-

icity)

Remarks: Data not available

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

Remarks: Data not available

Toxicity to microorganisms

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Remarks: Data not available

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 10 -< 30 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Remarks: Harmful

LL/EL/IL50 > 10 <= 100 mg/l

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): 22 - 46 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Remarks: Harmful

 $LL/EL/IL50>10 <= 100 \ mg/l$

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (algae)): > 1.000 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201 Remarks: Practically non toxic: LC/EC/IC50 > 100 mg/l

Toxicity to microorganisms

Remarks: Data not available

Toxicity to fish (Chronic tox-

icity)

Remarks: Data not available

Toxicity to daphnia and other : aquatic invertebrates (Chron-

aduatic invertentates (Cilion-

ic toxicity)

Remarks: Data not available

12.2 Persistence and degradability

Product:

Biodegradability : Biodegradation: 89 %

Exposure time: 28 d

Method: OECD Test Guideline 301F Remarks: Readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Biodegradability : Biodegradation: 89 %

Exposure time: 28 d

Method: OECD Test Guideline 301F Remarks: Readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

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12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

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.

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

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 persis-

tence, bioaccumulation and toxicity and hence is not consid-

ered to be PBT or vPvB..

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Assessment : The substance does not fulfill all screening criteria for persis-

tence, bioaccumulation and toxicity and hence is not consid-

ered 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:

Additional ecological infor-

mation

Physical properties indicate that substance will rapidly volatilize from aquatic environment and that acute and chronic effects would

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not be observed in practice.

Does not have ozone depletion potential.

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

Components:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Additional ecological information

Physical properties indicate that substance will rapidly volatilize from aquatic environment and that acute and chronic effects would not be observed in practice.

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.

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Comply with any local recovery or waste disposal regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : 1268
RID : 1268
IMDG : 1268
IATA : 1268

14.2 UN proper shipping name

ADR : PETROLEUM DISTILLATES, N.O.S.

RID : PETROLEUM DISTILLATES, N.O.S.

IMDG : PETROLEUM DISTILLATES, N.O.S.

IATA : Petroleum distillates, n.o.s.

14.3 Transport hazard class(es)

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 : no

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RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

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 enriched atmospheres displaces available oxygen which 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 - List of substances subject to authorisation : Product is no

(Annex XIV) tid

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

: Product is not subject to Authorisa-

tion under REACH.

: This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH),

Article 57).

Volatile organic compounds : Volatile organic compounds (VOC) content: 100 %

Other regulations:

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

Product is subject to Government Decree on the Monitoring of the Handling and Storage of Dangerous Chemicals 685/2015, based on Seveso III directive (2012/18/EU).

The national inventory is based on the CAS number 64742-49-0.

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

DSL : Listed

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IECSC : Listed

KECI : Listed

TSCA : Listed

TCSI : Listed

ENCS : Listed

NZIoC : Listed

PICCS : 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

EU HSPA : OEL based on European Hydrocarbon Solvents Producers

(CEFIC-HSPA) methodology.

EU HSPA / TWA : 8-hr TWA

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 Re-

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striction 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 op-

erators.

Other information : For Industry guidance and tools on REACH please visit the

CEFIC website at http://cefic.org/Industry-support.

The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not consid-

ered to be PBT or vPvB.

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 physicochemical 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 date base, EC 1272 regulation, etc).

dence determination.

Classification of the mixture: Classification procedure:

Flam. Liq. 3	H226	On basis of test data.
Asp. Tox. 1	H304	Expert judgement and weight of evidence determination.
STOT SE 3	H336	Expert judgement and weight of evidence determination.
Aquatic Chronic 3	H412	Expert judgement and weight of evi-

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Identified Uses according to the Use Descriptor System

Uses - Worker

Title : Road and construction applications- Professional

Uses - Worker

Title : Use in laboratories- Industrial

Uses - Worker

Title : Use in laboratories- Professional

Uses - Worker

Title : Functional Fluids- Industrial

Uses - Worker

Title : Functional Fluids- Professional

Uses - Worker

Title : Metal working fluids / rolling oils- Industrial

Uses - Worker

Title : Metal working fluids / rolling oils- Professional

Uses - Worker

Title : Use as binders and release agents- Industrial

Uses - Worker

Title : Use as binders and release agents- Professional

Uses - Worker

Title : Use as a fuel- Industrial

Uses - Worker

Title : Use as a fuel- Professional

Uses - Worker

Title : Lubricants- ProfessionalHigh Environmental Release

Uses - Worker

Title : Lubricants- ProfessionalLow Environmental Release

Uses - Worker

Title : Lubricants- Industrial

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

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Title : Uses in Coatings- Industrial

Uses - Worker

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

trial

Uses - Worker

Title : Distribution of substance- Industrial

Uses - Worker

Title : Manufacture of substance- Industrial

Uses - Worker

Title : Rubber production and processing- Industrial

Identified Uses according to the Use Descriptor System

Uses - Consumer

Title : Functional Fluids

- Consumer

Uses - Consumer

Title : Use as a fuel

- Consumer

Uses - Consumer

Title : Lubricants

- Consumer

High Environmental Release

Uses - Consumer

Title : Lubricants

- Consumer

Low Environmental Release

Uses - Consumer

Title : Use in Cleaning Agents

- Consumer

Uses - Consumer

Title : Uses in Coatings

- 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

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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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Exposure Scenario - Worker

Exposure Scenario - Worker		
30000000912		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Road and construction applications- Professional	
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13 Environmental Release Categories: 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
Product Characteristics	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of	Use
Covers daily exposures up to	8 hours (unless stated differently).
Other Operational Conditio	ns affecting Exposure
	an 20°C above ambient temperature (unless stated differently). ard of occupational hygiene is implemented.
Contributing Scenarios	Risk Management Measures
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	No other specific measures identified.
Small scale weigh- ingPROC9	No other specific measures identified.
ManualRolling, Brush- ingPROC10	No other specific measures identified.
Spraying/ fogging by ma- chine applicationOperation is carried out at elevated	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than
temperature (> 20°C above ambient tempera-	4 hours Wear suitable gloves tested to EN374.

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ture).PROC11	Other skin protection measures such as face shields may be required during high which are likely to lead to substantial aer spraying.	dispersion activities	
Spraying/ fogging by machine applicationPROC11	Provide a good standard of controlled version changes per hour). Avoid carrying out activities involving expandare to the seriod controlled version carrying out activities involving expandare to the seriod carrying in th	osure for more than impervious suits and dispersion activities	
Dipping, immersion and pouringPROC13	No other specific measures identified.		
Drum and small package fillingPROC9	No other specific measures identified.		
Equipment cleaning and maintenancePROC8a	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):		4	
Fraction of Regional tonnage used locally:		5,0E-04	
Annual site tonnage (tonnes/year):		2,0E-03	
Maximum daily site tonnage (kg/day):		5,5E-03	
Frequency and Duration of			
Continuous release.			
Emission Days (days/year):		365	
	influenced by risk management		
Local freshwater dilution fact		10	
Local marine water dilution fa	actor:	100	
Other Operational Condition	ons affecting Environmental Exposure		
	vide dispersive use (regional only):	0,95	
Release fraction to wastewater from wide dispersive use:		0,01	
Release fraction to soil from	wide dispersive use (regional only):	0,04	
Technical conditions and n	neasures at process level (source) to pro	event release	
Common practices vary acro	ss sites thus conservative process re-		
lease estimates used.	·		
Technical onsite conditions sions and releases to soil	s and measures to reduce or limit disch	arges, air emis-	
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 >= (%)			
	If discharging to domestic sewage treatment plant, provide the re-		
s.comarging to domocito oc	gooaimoni piani, provido ino io	1 ~	

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quired onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment p	lant
Estimated substance removal from wastewater via domestic sewage	96,4
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96,4
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	8,8
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste fo	r 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 regulations.	local and/or regional

SECTION 3 EXPOSURE ESTIMATION

Section 3.1 - Health

The ECETOC TRA Version 3 tool has been used to estimate workplace exposures unless otherwise indicated

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

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
Castian 4.4 Haalth	

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.

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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/en/reach-for-industries-libraries.html).

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Exposure Scenario - Worker

Exposure oderiario Worker	
30000000920	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in laboratories- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC15 Environmental Release Categories: ERC2, ERC4
Scope of process	Use of the substance within laboratory settings, including material transfers and equipment cleaning.

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 - 10 kPa at STP	
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,	
Frequency and Duration of	Use	
Covers daily exposures up to	8 hours (unless stated differently).	
Other Operational Condition	ns affecting Exposure	
Assumes a good basic standa	n 20°C above ambient temperature (unle ard of occupational hygiene is implemente	
Contributing Scenarios	Risk Management Measures	
Laboratory activi- tiesPROC15	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 (tonne	s/year):	0,01
Fraction of Regional tonnage	used locally:	1
Annual site tonnage (tonnes/year):		0,01
Maximum daily site tonnage (kg/day):		0,5
Frequency and Duration of	Use	
Continuous release.		
Emission Days (days/year):		20
Environmental factors not i	nfluenced by risk management	
Local freshwater dilution factor:		10
Local marine water dilution factor:		100
	ns affecting Environmental Exposure	
Release fraction to air from process (initial release prior to RMM):		0,025
Release fraction to wastewater from process (initial release prior to RMM):		0,02

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Release fraction to soil from process (initial release prior to RMM):	1E-04
Technical conditions and measures at process level (source) to pr	event release
Common practices vary across sites thus conservative process re-	
lease estimates used.	
Technical onsite conditions and measures to reduce or limit disch	arges, air emis-
sions and releases to soil	
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	0
the required removal efficiency of >= (%)	
If discharging to domestic sewage treatment plant, provide the re-	0
quired onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
0 19	
Conditions and Measures related to municipal sewage treatment p	
Estimated substance removal from wastewater via domestic sewage	96,4
treatment (%)	00.4
Total efficiency of removal from wastewater after onsite and offsite	96,4
(domestic treatment plant) RMMs (%)	000
Maximum allowable site tonnage (MSafe) based on release following	230
total wastewater treatment removal (kg/d)	2.000
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste fo	•
External treatment and disposal of waste should comply with applicable	local and/or regiona
regulations.	
Conditions and maggires related to external receivery of weets	
Conditions and measures related to external recovery of waste	local and/or ragicas
External recovery and recycling of waste should comply with applicable regulations.	iocai and/or regional
reonanons	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA Version 3 tool has been used to estimate workplace exposures unless	
othorwice indicated	

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.	

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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.

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30000000921	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in laboratories- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC15 Environmental Release Categories: ERC8a, ESVOC SpERC 8.17.v1
Scope of process	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.

OF OTION O	ODERATIONAL CONDITIONS AND DIS	OK MANAGEMENT	
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 - 10 kPa at STP		
Concentration of the Sub-	Covers percentage substance in the product up to 100%.,		
stance in Mixture/Article	Unless stated otherwise.,		
Frequency and Duration of	Use		
	8 hours (unless stated differently).		
Other Operational Condition			
	n 20°C above ambient temperature (unles		
Assumes a good basic standa	ard of occupational hygiene is implemente	ed.	
Contributing Scenarios	Risk Management Measures		
Laboratory activi-	No other specific measures identified.		
tiesPROC15	•		
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 (tonne	s/year):	0,01	
Fraction of Regional tonnage	used locally:	5,0E-04	
Annual site tonnage (tonnes/		5,0E-06	
Maximum daily site tonnage (1,4E-05	
Frequency and Duration of	Use		
Continuous release.			
Emission Days (days/year):		365	
	nfluenced by risk management		
Local freshwater dilution factor	or:	10	
Local marine water dilution fa		100	
	ns affecting Environmental Exposure		
	ide dispersive use (regional only):	0,5	
Release fraction to wastewater from wide dispersive use: 0,5			

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Release fraction to soil from wide dispersive use (regional only):	0
Technical conditions and measures at process level (source) to pr	_
Common practices vary across sites thus conservative process re-	
lease estimates used.	
Technical onsite conditions and measures to reduce or limit disch	arges, air emis-
sions and releases to soil	
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, provide the required onsite wastewater removal efficiency of (%)	0
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment p	lant
Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96,4
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	2,2E-03
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste fo	r disposal
External treatment and disposal of waste should comply with applicable regulations.	
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable regulations.	local and/or regiona

SECTION 3 EXPOSURE ESTIMATION			
Section 3.1 - Health			
The ECETOC TRA Version 3 tool has been used to estimate workplace exposures unless			
othorwico indicated			

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		

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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.

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Exposure Scenario - Worker	
30000000904	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Functional Fluids- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9 Environmental Release Categories: ERC7, ESVOC SpERC 7.13a.v1
Scope of process	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.

CECTION 2	ODED ATIONAL CONDITIONS AND DISK MANAGEMENT		
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 - 10 kPa at STP		
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,		
Frequency and Duration of	Use		
Covers daily exposures up to	8 hours (unless stated differently).		
Other Operational Condition	ns affecting Exposure		
	n 20°C above ambient temperature (unless stated differently).		
Assumes a good basic standa	ard 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 arti-	No other specific measures identified.		
cles/equipment(closed systems)PROC9			
Filling/ preparation of	No other specific measures identified.		
equipment from drums or			
containers.Non-dedicated			
facilityPROC8a			
General exposures (closed	No other specific measures identified.		
systems)PROC2PROC3			
General exposures (open	No other specific measures identified.		
systems)PROC4			
General exposures (open	No other specific measures identified.		
systems)elevated tempera-			
turePROC4			
Remanufacture of reject	No other specific measures identified.		

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antial a DDOOO	1		
articlesPROC9	Nicotion (Company)		
Equipment maintenance- PROC8a No other specific measures identified.			
Storage.PROC1PROC2 Store substance within a closed system.			
Section 2.2	Control of Environmental Exposure		
Substance is complex UVCE	3.		
Predominantly hydrophobic.			
Amounts Used			
Fraction of EU tonnage used	l in region:	0,1	
Regional use tonnage (tonne		10	
Fraction of Regional tonnage	1		
Annual site tonnage (tonnes	10		
Maximum daily site tonnage	500		
Frequency and Duration of		J	
Continuous release.			
Emission Days (days/year):		20	
	influenced by risk management		
Local freshwater dilution fact		10	
Local marine water dilution fa		100	
	ons affecting Environmental Exposure	100	
	process (initial release prior to RMM):	5,0E-03	
	ter from process (initial release prior to	1,0E-06	
RMM):	to the first process (times recessed prior to	.,0= 00	
	process (initial release prior to RMM):	1,0E-03	
	neasures at process level (source) to pr	event release	
Common practices vary acro	ess sites thus conservative process re-		
lease estimates used.	·		
Technical onsite condition sions and releases to soil	s and measures to reduce or limit disch	arges, air emis-	
	osure is driven by freshwater.		
	olved substance to or recover from onsite		
wastewater.			
No wastewater treatment red	quired.		
	a typical removal efficiency of (%)	0	
	or to receiving water discharge) to provide	0	
the required removal efficien			
	wage treatment plant, provide the re-	0	
quired onsite wastewater rer	noval efficiency of (%)		
Organisational measures t	o prevent/limit release from site		
Do not apply industrial sludg	e to natural soils.		
0			
Sludge should be incinerated	d, contained or reclaimed.		
-	d, contained or reclaimed. related to municipal sewage treatment p	lant	
Conditions and Measures		lant 96,4	
Conditions and Measures	related to municipal sewage treatment p		
Conditions and Measures Estimated substance remova treatment (%) Total efficiency of removal free	related to municipal sewage treatment p al from wastewater via domestic sewage om wastewater after onsite and offsite		
Conditions and Measures Estimated substance remova treatment (%) Total efficiency of removal fr (domestic treatment plant) R	related to municipal sewage treatment p al from wastewater via domestic sewage om wastewater after onsite and offsite MMs (%)	96,4	
Conditions and Measures Estimated substance remova treatment (%) Total efficiency of removal fr (domestic treatment plant) R	related to municipal sewage treatment p al from wastewater via domestic sewage om wastewater after onsite and offsite MMs (%) nage (MSafe) based on release following	96,4	

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Assumed domestic sewage treatment plant flow (m3/d) 2.00

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 Version 3 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.

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30000000905	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Functional Fluids- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.13b.v1
Scope of process	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 - 10 kPa at STP		
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,		
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
Drum/batch transfersPROC8a	No other specific measures identified.
Transfer from/pouring from containersPROC9	No other specific measures identified.
Filling/ preparation of equipme from drums or containers.PROC9	nt No other specific measures identified.
General exposures (closed systems)PROC1PROC2PROC	No other specific measures identified.
Operation of equipment contai ing engine oils and simi- lar.(closed systems)PROC20	n- No other specific measures identified.
Operation of equipment contai ing engine oils and similar.(closed systems)Operation carried out at elevated temperature (> 20°C above ambient temperature).PROC20	is
Remanufacture of reject arti-	No other specific measures identified.

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clesPROC9			
Equipment maintenance-		No other specific measures identified	i.
PROC8a		Otana data a 2012 a da a 1	
Storage.PROC1PROC2		Store substance within a closed syst	em.
		ntrol of Environmental Exposure	
Substance is complex UVCB			
Predominantly hydrophobic.			
Amounts Used			
Fraction of EU tonnage used	in re	gion:	0,1
Regional use tonnage (tonnes/year):			10
Fraction of Regional tonnage used locally:		5,0E-04	
Annual site tonnage (tonnes/year):		5,0E-03	
Maximum daily site tonnage (kg/day):			0,014
Frequency and Duration of			
Continuous release.			
Emission Days (days/year):			365
Environmental factors not i	nflu	enced by risk management	
Local freshwater dilution factor			10
Local marine water dilution fa	ctor		100
Other Operational Conditio	ns a	ffecting Environmental Exposure	
		dispersive use (regional only):	0,05
Release fraction to wastewate			0,025
		dispersive use (regional only):	0,025
		ures at process level (source) to pro	
		tes thus conservative process re-	
lease estimates used.			
	and	d measures to reduce or limit discha-	arges, air emis-
Risk from environmental expo	osure	e is driven by freshwater.	
No wastewater treatment req		•	
Treat air emission to provide			0
		receiving water discharge) to provide	0
the required removal efficience			
			0
If discharging to domestic sewage treatment plant, provide the required ensity wastowater removed officiency of (%)			
quired onsite wastewater rem	oval	efficiency of (%)	
	oval pre	efficiency of (%) event/limit release from site	
quired onsite wastewater rem Organisational measures to	oval o pre e to r	efficiency of (%) event/limit release from site natural soils.	
quired onsite wastewater rem Organisational measures to Do not apply industrial sludge Sludge should be incinerated Conditions and Measures re	p pre e to r , cor	efficiency of (%) event/limit release from site natural soils. Intained or reclaimed. The decided to municipal sewage treatment p	lant
quired onsite wastewater rem Organisational measures to Do not apply industrial sludge Sludge should be incinerated Conditions and Measures re Estimated substance remova	p pre e to r , cor	efficiency of (%) event/limit release from site natural soils. Intained or reclaimed.	
quired onsite wastewater rem Organisational measures to Do not apply industrial sludge Sludge should be incinerated Conditions and Measures re Estimated substance remova treatment (%)	p pre e to r , cor elate	efficiency of (%) event/limit release from site natural soils. Intained or reclaimed. ed to municipal sewage treatment p m wastewater via domestic sewage	
quired onsite wastewater rem Organisational measures to Do not apply industrial sludge Sludge should be incinerated Conditions and Measures r Estimated substance removal treatment (%) Total efficiency of removal from	presented to presente to record to presente to record to presente	efficiency of (%) event/limit release from site natural soils. etation or reclaimed. etation de to municipal sewage treatment p m wastewater via domestic sewage eastewater after onsite and offsite	lant
quired onsite wastewater rem Organisational measures to Do not apply industrial sludge Sludge should be incinerated Conditions and Measures re Estimated substance removal treatment (%) Total efficiency of removal fro (domestic treatment plant) RN	presented to presente to record to presente to present	efficiency of (%) event/limit release from site natural soils. Intained or reclaimed. ed to municipal sewage treatment p m wastewater via domestic sewage eastewater after onsite and offsite (%)	96,4 96,4
quired onsite wastewater rem Organisational measures to Do not apply industrial sludge Sludge should be incinerated Conditions and Measures re Estimated substance removate treatment (%) Total efficiency of removal from (domestic treatment plant) RM Maximum allowable site tonnotes	o pree to ree to	efficiency of (%) event/limit release from site natural soils. Intained or reclaimed. ed to municipal sewage treatment p m wastewater via domestic sewage eastewater after onsite and offsite (%) (MSafe) based on release following	
Quired onsite wastewater remorphisms on the property of the pr	o pree to ree to	efficiency of (%) event/limit release from site natural soils. Intained or reclaimed. ed to municipal sewage treatment p m wastewater via domestic sewage astewater after onsite and offsite (%) (MSafe) based on release following al (kg/d)	96,4 96,4 20
quired onsite wastewater rem Organisational measures to Do not apply industrial sludge Sludge should be incinerated Conditions and Measures re Estimated substance removate treatment (%) Total efficiency of removal from (domestic treatment plant) RM Maximum allowable site tonnototal wastewater treatment re Assumed domestic sewage to	o pree to ree to	efficiency of (%) event/limit release from site natural soils. Intained or reclaimed. ed to municipal sewage treatment p m wastewater via domestic sewage astewater after onsite and offsite (%) (MSafe) based on release following al (kg/d)	Section 1

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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 Version 3 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.

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Exposure Scenario - Worker

Exposure Scenario - Wo	inci
30000000894	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Metal working fluids / rolling oils- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17 Environmental Release Categories: 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		
Product Characteristics			
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at S	TP	
Concentration of the Sub-	Covers percentage substance in the product up to 100%.,		
stance in Mixture/Article	Unless stated otherwise.,		
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 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 I	Management Measures	
General exposures (closed sy tems)PROC1PROC2PROC3		No other specific measures identified.	
General exposures (open sys tems)PROC4	5-	No other specific measures identified.	
Bulk transfersDedicated facili- tyPROC8b	-	No other specific measures identified.	
Filling/ preparation of equipment from drums or containers.PROC5PROC8bPROC9	ent	No other specific measures identified.	
Process samplingPROC8b		No other specific measures identified.	
Metal machining operationsPROC17		No other specific measures identified.	
Treatment by dipping and pour ingPROC13	ur-	No other specific measures identified.	

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SprayingPROC7	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).
ManualRolling, BrushingPROC10	No other specific measures identified.
Automated metal roll- ing/formingUse in contained sys- temsOperation is carried out at elevated temperature (> 20°C above ambient tempera- ture).PROC2	No other specific measures identified.
Semi-automated metal roll- ing/formingOperation is carried out at elevated temperature (> 20°C above ambient tempera- ture).PROC17	No other specific measures identified.
Equipment cleaning and maintenanceDedicated facilityPROC8b	No other specific measures identified.
Equipment cleaning and mainte- nanceNon-dedicated facili- tyPROC8a	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 (tonne	s/year):	1
Fraction of Regional tonnage	used locally:	1
Annual site tonnage (tonnes/	year):	1
Maximum daily site tonnage (50
Frequency and Duration of	Use	
Continuous release.		
Emission Days (days/year):		20
	nfluenced by risk management	
Local freshwater dilution factor	or:	10
Local marine water dilution fa	ctor:	100
	ns affecting Environmental Exposure	
	rocess (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
Technical conditions and m	neasures at process level (source) to pr	revent release
Common practices vary acros	ss sites thus conservative process re-	
lease estimates used.		
Technical onsite conditions and measures to reduce or limit discharges, sions and releases to soil		arges, air emis-
Risk from environmental exposure is driven by freshwater.		
Prevent discharge of undisso wastewater.	lved substance to or recover from onsite	

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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, provide the required onsite wastewater removal efficiency of (%)	0
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment p	lant
Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96,4
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	8,0E+04
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste for	r disposal
External treatment and disposal of waste should comply with applicable regulations.	local and/or regional
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable regulations.	local and/or regional

SECTION 3	EXPOSURE ESTIMATION
SECTION 5	LAFOSONE ESTIMATION

Section 3.1 - Health

The ECETOC TRA Version 3 tool has been used to estimate workplace exposures unless otherwise indicated

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

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

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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.

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Exposure Scenario - Worker

Exposure Scenario - Worke	1
30000000895	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Metal working fluids / rolling oils- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.7c.v1
Scope of process	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 - 10 kPa at STP		
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,		
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 that	an 20°C above ambient temperature (unless stated differently).		

Assumes a good basic standard of occupational hygiene is implemented.

Contributing Scenarios	Risk Managen	nent Measures	
General exposures (closed systems)PROC1PROC2PROC3	3-	No other specific measures identified.	
Bulk transfersPROC8b		No other specific measures identified.	
Filling/ preparation of equipme or contain- ers.PROC5PROC8aPROC8bF		No other specific measures identified.	
Process samplingPROC8b		No other specific measures identified.	
Metal machining operationsPR	OC17	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).	า
ManualRolling, BrushingPROC	310	No other specific measures identified.	
SprayingIndoorPROC11		Provide a good standard of controlled ventilation (10 to 15 air changes per hour).	า

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		more than 4 hours Wear suitable gloves tes Other skin protection moous suits and face shield	easures such as impervi- ds may be required during s which are likely to lead
SprayingOutdoorPROC11		more than 1 hour. Wear suitable gloves tes Other skin protection moous suits and face shield	ties involving exposure for sted to EN374. easures such as impervids may be required during which are likely to lead
Treatment by dipping and pouringPROC13		No other specific measu	res identified.
Equipment cleaning and maintenanceNon- dedicated facilityPROC8a		No other specific measu	res identified.
Equipment cleaning and maintenanceDedicated facilityPROC8b		No other specific measu	
Storage.PROC1PROC2		Store substance within a	a ciosed system.
Section 2.2	Control of Env	/ironmental Exposure	
Substance is complex UVCE	3.		
Predominantly hydrophobic.			
Amounts Used			
Fraction of EU tonnage used in region:			0,1
Regional use tonnage (tonnes/year):			0,5
Fraction of Regional tonnage used locally:			5,0E-04
Annual site tonnage (tonnes/year):			2.5F-04

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	s/year):	0,5
Fraction of Regional tonnage	used locally:	5,0E-04
Annual site tonnage (tonnes/	year):	2,5E-04
Maximum daily site tonnage (kg/day):	6,8E-04
Frequency and Duration of Use		
Continuous release.		
Emission Days (days/year):		365
Environmental factors not i	nfluenced 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 wide dispersive use (regional only):		0,15
Release fraction to wastewate	er from wide dispersive use:	0,05
Release fraction to soil from v	wide dispersive use (regional only):	0,05
Technical conditions and measures at process level (source) to prevent release		
Common practices vary across sites thus conservative process re-		
lease estimates used.		
Technical onsite conditions and measures to reduce or limit discharges, air emis-		
sions and releases to soil		
Risk from environmental exposure is driven by freshwater.		
No wastewater treatment required.		

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Treat air emission to provide a typical removal efficiency of (%)	0	
Treat onsite wastewater (prior to receiving water discharge) to provide	0	
the required removal efficiency of >= (%)		
If discharging to domestic sewage treatment plant, provide the re-	0	
quired onsite wastewater removal efficiency of (%)		
Organisational measures to prevent/limit release from site		
Do not apply industrial sludge to natural soils.		
Sludge should be incinerated, contained or reclaimed.		
Conditions and Measures related to municipal sewage treatment p	lant	
Estimated substance removal from wastewater via domestic sewage	96,4	
treatment (%)		
Total efficiency of removal from wastewater after onsite and offsite	96,4	
(domestic treatment plant) RMMs (%)		
Maximum allowable site tonnage (MSafe) based on release following	2,2	
total wastewater treatment removal (kg/d)		
Assumed domestic sewage treatment plant flow (m3/d)	2.000	
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 Version 3 tool has been used to estimate workplace exposures unless otherwise indicated

Estimated workplace exposures are not expected to exceed DNELs when the identified risk management measures are adopted.

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
O (' 4 4 11 14)	

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

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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.

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Exposure deciratio - Worker	
30000000899	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as binders and release agents- Industrial
Use Descriptor	Sector of Use: SU3
	Process Categories: PROC1, PROC2, PROC3, PROC4,
	PROC6, PROC8a, PROC8b, PROC10, PROC13, PROC14
	Environmental Release Categories: ERC4, ESVOC SpERC
	4.10a.v1
	11704171
Scope of process	Covers the use as binders and release agents including ma-
, ,	terial transfers, mixing, application (including spraying and
	brushing), mould forming and casting, and handling of waste.
	2. a.d. may, mosts romming and babting, and mandaling of watto.

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 - 10 kPa at STP	
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,	
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
Material transfersUse in con-	No other specific measures identified.
tained sys-	
temsPROC1PROC2PROC3	
Drum/batch transfersDedicated	No other specific measures identified.
facilityPROC8b	
Mixing operations (closed sys-	No other specific measures identified.
tems)PROC3	
Mixing operations (open sys-	No other specific measures identified.
tems)PROC4	
Mold formingPROC14	No other specific measures identified.
Casting operations(open sys-	No other specific measures identified.
tems)Operation is carried out a	t
elevated temperature (> 20°C	
above ambient tempera-	
ture). Aerosol generation due to	
elevated process temperature-	
PROC6	
SprayingMachinePROC7	Provide a good standard of controlled ventilation (10 to 15 air

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changes per hour).

ManualRolling, Brush- ingPROC10	No other specific measures identified		
Dipping, immersion and pour-	No other specific measures identified		
ingPROC13	·		
Equipment cleaning and	No other specific measures identified		
maintenancePROC8a			
Storage.PROC1PROC2	Store substance within a closed syste	em.	
-	Control of Environmental Exposure		
	Substance is complex UVCB.		
Predominantly hydrophobic.			
Amounts Used		1	
Fraction of EU tonnage used in		0,1	
Regional use tonnage (tonnes/		43	
Fraction of Regional tonnage u		1	
Annual site tonnage (tonnes/ye		43	
Maximum daily site tonnage (kg		2,200	
Frequency and Duration of U	se		
Continuous release.			
Emission Days (days/year):		20	
Environmental factors not inf	luenced by risk management		
Local freshwater dilution factor:		10	
Local marine water dilution fact	or:	100	
Other Operational Conditions	affecting Environmental Exposure		
Release fraction to air from process (initial release prior to RMM): 0,2			
Release fraction to wastewater from process (initial release prior to RMM):			
Release fraction to soil from process (initial release prior to RMM):			
	Technical conditions and measures at process level (source) to prevent release		
Common practices vary across sites thus conservative process re-			
lease estimates used.			
	and measures to reduce or limit disch	arges, air emis-	
sions and releases to soil	una ia daivana la cofrancia contana	1	
Risk from environmental expos			
Prevent discharge of undissolved substance to or recover from onsite			
wastewater.			
No wastewater treatment required.		00	
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, provide the required onsite wastewater removal efficiency of (%)		0	
Organisational measures to prevent/limit release from site			
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 f	rom wastewater via domestic sewage	96,4	

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treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96,4
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	3,3E+06
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Massacrass related to entermal treatment of west for	!!

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 Version 3	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.

	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Continu 4.4 Hookk	

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.

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EXPOSURE SCENARIO TITLE
Use as binders and release agents- Professional
Sector of Use: SU22
Process Categories: PROC1, PROC2, PROC3, PROC4,
PROC6, PROC8a, PROC8b, PROC10, PROC11, PROC14
Environmental Release Categories: ERC8a, ERC8d,
ESVOC SpERC 8.10b.v1
'
Covers the use as binders and release agents including ma-
terial 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 - 10 kPa at STP		
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,		
Frequency and Duration of Use			
Covers daily exposures up to	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.			

Assumes a good basic standard of occupational hygiene is implemented.		
Contributing Scenarios Ri	sk Management Measures	
Material transfers(closed systems)PROC1PROC2PROC3	No other specific measures identified.	
Drum/batch transfer- sPROC8aPROC8b	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	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).	
elevated temperature (> 20°C above ambient tempera-	Avoid carrying out activities involving exposure for more than 4 hours	
ture).PROC6	Wear suitable gloves tested to EN374.	
	Other skin protection measures such as impervious suits and	
	face shields may be required during high dispersion activities	
	which are likely to lead to substantial aerosol release, e.g. spraying.	

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Spraying Machine DDOC44	Drovide a good standard of controlle	d ventilation (40 to 45 a	
SprayingMachinePROC11 Provide a good standard of controlled ventilation (10 to 1		d ventilation (10 to 15 a	
	changes per hour).	a avaaalira far mara tha	
	Avoid carrying out activities involving 4 hours	g exposure for more that	
	4 hours Wear suitable gloves tested to EN37	' <i>1</i>	
	Other skin protection measures such		
	face shields may be required during		
	which are likely to lead to substantial		
	spraying.	. ao. 555. 15.5455, 5.g.	
ManualRolling, Brush-	No other specific measures identified	d.	
ingPROC10			
Storage.PROC1PROC2	Store substance within a closed syst	em.	
Section 2.2 Co	ntrol of Environmental Exposure		
Substance is complex UVCB.	•		
Predominantly hydrophobic.			
Amounts Used			
Fraction of EU tonnage used in re	gion:	0,1	
Regional use tonnage (tonnes/yea		20	
Fraction of Regional tonnage used	d locally:	5,0E-04	
Annual site tonnage (tonnes/year)):	0,01	
Maximum daily site tonnage (kg/d	ay):	0,027	
Frequency and Duration of Use			
Continuous release.			
Emission Days (days/year):	365		
Environmental factors not influ	enced by risk management		
Local freshwater dilution factor:		10	
Local marine water dilution factor:		100	
	ffecting Environmental Exposure		
Release fraction to air from wide of		0,95	
Release fraction to wastewater from	0,025		
Release fraction to soil from wide dispersive use (regional only): 0,025			
	ures at process level (source) to pr	event release	
Common practices vary across sit	tes thus conservative process re-		
lease estimates used.	Lanca and the same land and Park Park		
sions and releases to soil	d measures to reduce or limit discha	arges, air emis-	
	n is driven by freshwater		
Risk from environmental exposure is driven by freshwater. No wastewater treatment required.			
Treat air emission to provide a typ	0		
Treat onsite wastewater (prior to r	0		
the required removal efficiency of >= (%)			
If discharging to domestic sewage treatment plant, provide the re-			
quired onsite wastewater removal efficiency of (%)			
quiled disile wastewater removal			
	veni/illilit release ironi site		
Organisational measures to pre Do not apply industrial sludge to r			
Organisational measures to pre			

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Conditions and Measures related to municipal sewage treatment plant				
Estimated substance removal from wastewater via domestic sewage	96,4			
treatment (%)				
Total efficiency of removal from wastewater after onsite and offsite	96,4			
(domestic treatment plant) RMMs (%)				
Maximum allowable site tonnage (MSafe) based on release following	37			
total wastewater treatment removal (kg/d)				
Assumed domestic sewage treatment plant flow (m3/d)	2.000			

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 Version 3	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.

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Exposure Scenario - Worker		
30000000901		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Use as a fuel- Industrial	
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16 Environmental Release Categories: ERC7, ESVOC SpERC 7.12a.v1	
Scope of process	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 - 10 kPa at STP		
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,		
Frequency and Duration of Use			
Covers daily exposures up to	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	Ris	sk Management Measures	
Bulk transfersDedicated facilityPROC8b	-	No other specific measures identified.	
Drum/batch transfersDedicate facilityPROC8b	ed	No other specific measures identified.	
General exposures (closed systems)PROC1PROC2PRO	C3	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.	Predominantly hydrophobic.		
Amounts Used			
Fraction of EU tonnage used	in region:	0,1	
Regional use tonnage (tonnes/year): 30			
Fraction of Regional tonnage used locally:			

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Γ	T	
Annual site tonnage (tonnes/year):	30	
Maximum daily site tonnage (kg/day):	1.500	
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):	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	
Technical conditions and measures at process level (source) to pro	event release	
Common practices vary across sites thus conservative process release estimates used.		
Technical onsite conditions and measures to reduce or limit dischasions and releases to soil	arges, air emis-	
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	0	
the required removal efficiency of >= (%)		
If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%)	0	
Organisational measures to prevent/limit release from site		
Do not apply industrial sludge to natural soils.		
Sludge should be incinerated, contained or reclaimed.		
Conditions and Measures related to municipal sewage treatment p	lant	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4	
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96,4	
Maximum allowable site tonnage (MSafe) based on release following	4,6E+05	
total wastewater treatment removal (kg/d)	,	
Assumed domestic sewage treatment plant flow (m3/d)	2.000	
Conditions and Measures related to external treatment of waste for	r disposal	
Combustion emissions limited by required exhaust emission controls.		
Waste combustion emissions considered in regional exposure assessment.		
Conditions and measures related to external recovery of waste		
This substance is consumed during use and no waste of substance is g	enerated.	

SECTION 3 EXPOSURE ESTIMATION			
Section 3.1 - Health			
The ECETOC TRA Version 3 tool has been used to estimate workplace exposures unless			
otherwise indicated			

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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.

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Exposure ocenano - work	
30000000902	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as a fuel- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.12b.v1
Scope of process	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 - 10 kPa at STP		
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,		
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 transfersDedicated facili- tyPROC8b	No other specific measures identified.
Drum/batch transfersDedicate facilityPROC8b	d No other specific measures identified.
Refueling.Dedicated facili- tyPROC8b	No other specific measures identified.
General exposures (closed systems)PROC1PROC2PROC	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		

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	T 00		
Regional use tonnage (tonnes/year):	30		
Fraction of Regional tonnage used locally:	5,0E-04		
Annual site tonnage (tonnes/year):	0,015		
Maximum daily site tonnage (kg/day):	0,041		
Frequency and Duration of Use	T		
Continuous release.			
Emission Days (days/year):	365		
Environmental factors not influenced by risk management	T		
Local freshwater dilution factor:	10		
Local marine water dilution factor:	100		
Other Operational Conditions affecting Environmental Exposure	1		
Release fraction to air from wide dispersive use (regional only):	1,0E-03		
Release fraction to wastewater from wide dispersive use:	1,0E-05		
Release fraction to soil from wide dispersive use (regional only):	1,0E-05		
Technical conditions and measures at process level (source) to pro-	event release		
Common practices vary across sites thus conservative process re-			
lease estimates used.			
Technical onsite conditions and measures to reduce or limit discharge	arges, air emis-		
sions and releases to soil	T		
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	0		
the required removal efficiency of >= (%)			
If discharging to domestic sewage treatment plant, provide the re-	0		
quired onsite wastewater removal efficiency of (%)			
Organisational measures to prevent/limit release from site			
Do not apply industrial sludge to natural soils.			
Children about the insignment of southinged an appleion of			
Sludge should be incinerated, contained or reclaimed.			
Conditions and Measures related to municipal sewage treatment p	lant		
Estimated substance removal from wastewater via domestic sewage	96,4		
treatment (%)	00,4		
Total efficiency of removal from wastewater after onsite and offsite	96,4		
(domestic treatment plant) RMMs (%)	00,1		
Maximum allowable site tonnage (MSafe) based on release following	67		
total wastewater treatment removal (kg/d)			
Assumed domestic sewage treatment plant flow (m3/d)	2.000		
Conditions and Measures related to external treatment of waste for disposal			
Combustion emissions limited by required exhaust emission controls.			
Waste combustion emissions considered in regional exposure assessment.			
Conditions and measures related to external recovery of waste			
This substance is consumed during use and no waste of substance is g	enerated.		
· · · · · · · · · · · · · · · · · · ·			

SECTION 3 EXPOSURE ESTIMATION			
Section 3.1 - Health			
The ECETOC TRA Version 3 tool has been used to estimate workplace exposures unless			

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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.

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Exposure Scenario - Worker

30000000893		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Lubricants- ProfessionalHigh Environmental Release	
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.6c.v1	
Scope of process	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.	

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 - 10 kPa at STP		
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,		
Frequency and Duration of			
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 Ma	anagement Measures	
General exposures (closed systems)PROC1PROC2PROC3		No other specific measures identified.	
Operation of equipment conta engine oils and similar.PROC	_	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		Provide a good standard of controlled ventilation (10 to air changes per hour).	15

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Operation and lubrication of high energy open equipmentOut-doorPROC17PROC18	Ensure operation is undertaken of Avoid carrying out activities involution 4 hours	
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	No other specific measures ident	ified.
Maintenance of small itemsOperation is carried out at elevated temperature (> 20°C above ambient temperature).Non-dedicated facilityPROC8a	No other specific measures ident	ified.
Engine lubricant servicePROC9	No other specific measures ident	ified.
ManualRolling, BrushingPROC10	No other specific measures ident	ified.
SprayingPROC11	Provide a good standard of contrair changes per hour). Avoid carrying out activities involthan 4 hours Wear suitable gloves tested to El Other skin protection measures and face shields may be required activities which are likely to lead release, e.g. spraying.	ving exposure for more N374. such as impervious suits d during high dispersion
Treatment by dipping and pouringPROC13	No other specific measures identified.	
Storage.PROC1	Store substance within a closed system.	
	l 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):		26
Fraction of Regional tonnage used loc	ally:	5,0E-04
Annual site tonnage (tonnes/year):		0,013
Maximum daily site tonnage (kg/day):		0,035
Frequency and Duration of Use		
Continuous release.		
Emission Days (days/year):		365
Environmental factors not influence		
Local freshwater dilution factor:		10
Local marine water dilution factor:		100
Other Operational Conditions affect		0.45
Release fraction to air from wide dispe	ersive use (regional only):	0,15

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Release fraction to wastewater from wide dispersive use:	0,05
Release fraction to soil from wide dispersive use (regional only):	0,05
Technical conditions and measures at process level (source) to pro-	event release
Common practices vary across sites thus conservative process re-	
lease estimates used.	
Technical onsite conditions and measures to reduce or limit disch	arges, air emis-
sions and releases to soil	
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	0
the required removal efficiency of >= (%)	
If discharging to domestic sewage treatment plant, provide the re-	0
quired onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment p	lant
Estimated substance removal from wastewater via domestic sewage	96,4
treatment (%)	,
Total efficiency of removal from wastewater after onsite and offsite	96,4
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	52
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste for	r disposal
External treatment and disposal of waste should comply with applicable	local and/or regional
regulations.	5
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable	local and/or regional
regulations.	J
-	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA Version 3 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	

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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.

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Exposure Scenario - Worke	
30000000892	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants- ProfessionalLow Environmental Release
Use Descriptor	Sector of Use: SU22
	Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC18, PROC20 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.6b.v1
Scope of process	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.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEM MEASURES	ENT
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP	
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100% Unless stated otherwise.,	ó.,
Frequency and Duration of Use		
Covers daily exposures up to	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.		ntly).

Contributing Scenarios R	Risk Management Measures
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
Operation of equipment contain engine oils and similar.PROC20	
General exposures (open systems)PROC4	No other specific measures identified.
Bulk transfersDedicated facili- tyPROC8b	No other specific measures identified.
Filling/ preparation of equipmen from drums or containers.Dedicated facilityPROC8b	t No other specific measures identified.
Filling/ preparation of equipmen from drums or containers.Non-dedicated facilityPROC8a	No other specific measures identified.
Operation and lubrication of high energy open equipmentIndoorPROC17PROC18	Provide a good standard of controlled ventilation (10 to 15 air changes per hour).

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Operation and lubrication of high energy open equipmentOut-doorPROC17	Ensure operation is undertaken outdoors. Avoid carrying out activities involving exposure for more than 4 hours	
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	No other specific measures identified.	
Maintenance of small itemsOperation is carried out at elevated temperature (> 20°C above ambient temperature).Non-dedicated facilityPROC8a	No other specific measures identified.	
Engine lubricant servicePROC9	No other specific measures identified.	
ManualRolling, BrushingPROC10	No other specific measures identified.	
SprayingPROC11	Provide a good standard of controlled ventilation (10 to 15 air changes per hour). Avoid carrying out activities involving exposure for more than 4 hours Wear suitable gloves tested to EN374. Other skin protection measures such as impervious suits and face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.	
Treatment by dipping and pour-ingPROC13	No other specific measures identified.	
Storage.PROC1PROC2	Store substance within a closed system.	
Section 2.2 Contr	rol of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Amounts Used		
Fraction of EU tonnage used in region	on: 0,1	
Regional use tonnage (tonnes/year):		
Fraction of Regional tonnage used lo		
Annual site tonnage (tonnes/year):	0,013	
Maximum daily site tonnage (kg/day		
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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Release fraction to air from wide dispersive use (regional only):	0,01
Release fraction to wastewater from wide dispersive use:	0,01
Release fraction to soil from wide dispersive use (regional only):	0,01
Technical conditions and measures at process level (source) to pro	event release
Common practices vary across sites thus conservative process re-	
lease estimates used.	
Technical onsite conditions and measures to reduce or limit discharge	arges, air emis-
sions and releases to soil	_
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	0
the required removal efficiency of >= (%)	
If discharging to domestic sewage treatment plant, provide the re-	0
quired onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
•	
Conditions and Measures related to municipal sewage treatment p	lant
Estimated substance removal from wastewater via domestic sewage	96,4
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96,4
(domestic treatment plant) RMMs (%)	,
Maximum allowable site tonnage (MSafe) based on release following	52
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste for	r disposal
External treatment and disposal of waste should comply with applicable	
regulations.	3
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 Version 3 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	

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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.

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Exposure Scenario - Worker

Exposure Scenario - Worke	.1
30000000891	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants- Industrial
Use Descriptor	Sector of Use: SU3
	Process Categories: PROC1, PROC2, PROC3, PROC4,
	PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13,
	PROC17, PROC18
	Environmental Release Categories: ERC4, ERC7, ESVOC
	SpERC 4.6a.v1
	· ·
Scope of process	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 - 10 kPa at STP	
Concentration of the Sub-	Covers percentage substance in the product up to 100%.,	
stance in Mixture/Article	Unless stated otherwise.,	
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.		
Assumes a good basic standard of occupational hygiene is implemented.		

Contributing Scenarios	Ris	sk Management Measures	1
General exposures (closed systems)PROC1PROC2PRO	C3	No other specific measures identified.	
General exposures (open sys tems)PROC4	-	No other specific measures identified.	
Bulk transfersDedicated facili- tyPROC8b	•	No other specific measures identified.	
Filling/ preparation of equipme from drums or containers.Non dedicated facilityPROC8a		No other specific measures identified.	
Filling/ preparation of equipme from drums or containers.Dedicated facilityPROC8b		No other specific measures identified.	
Initial factory fill of equip- mentPROC9		No other specific measures identified.	
Operation and lubrication of high energy open equipmentPROC17PROC18		No other specific measures identified.	

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ManualRolling, Brush-	No other specific measures identifie	d.
ingPROC10		
Treatment by dipping and pour- ingPROC13	No other specific measures identifie	d.
SprayingPROC7	Provide a good standard of controlle changes per hour).	ed ventilation (10 to 15 air
Maintenance (of larger plant	No other specific measures identifie	d.
items) and machine set up- PROC8b		
Maintenance (of larger plant items) and machine set upOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC8b		d.
Maintenance of small itemsNon dedicated facilityPROC8a	- No other specific measures identifie	d.
Remanufacture of reject articlesPROC9	No other specific measures identifie	d.
Storage.PROC1PROC2	Store substance within a closed sys	tem.
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/y		52
Fraction of Regional tonnage us		1
Annual site tonnage (tonnes/ye		52
Maximum daily site tonnage (kg		2.600
Frequency and Duration of U		1 =:000
Continuous release.		
Emission Days (days/year):		20
Environmental factors not inf	luenced by risk management	1 = 5
Local freshwater dilution factor:		10
Local marine water dilution fact	or:	100
	affecting Environmental Exposure	
Release fraction to air from production	cess (initial release prior to RMM):	1,5E-03
	from process (initial release prior to	1,0E-06
	ocess (initial release prior to RMM):	1,0E-03
	asures at process level (source) to pr	
	sites thus conservative process re-	
lease estimates used.	·	
	nd measures to reduce or limit disch	narges, air emis-
sions and releases to soil		
Risk from environmental exposi	ure is driven by freshwater.	
Prevent discharge of undissolve wastewater.	ed substance to or recover from onsite	
No wastewater treatment requir	ed.	
Treat air emission to provide a t		70

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Treat onsite wastewater (prior to receiving water discharge) to provide	0
the required removal efficiency of >= (%)	
If discharging to domestic sewage treatment plant, provide the re-	0
quired onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment p	lant
Estimated substance removal from wastewater via domestic sewage	96,4
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96,4
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	2,3E+06
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste fo	r 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 Version	3 tool has been used to estimate workplace exposures unless

The ECETOC TRA Version 3 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		

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 technolo-

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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.

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Exposure Scenario - Worker

Exposure Scenario - Worker	
30000000890	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Cleaning Agents- Professional
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC19 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.4b.v1
Scope of process	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).

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 - 10 kPa at STP	
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,	
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	
Filling/ preparation of equipme from drums or contain-	No other specific measures identified.	
ers.Dedicated facilityPROC8b		
Filling/ preparation of equipme from drums or containers.Non-dedicated facilityPROC8a		
Automated process with (semi closed systems.Use in contain systemsPROC2	,	
Automated process with (semi closed systems.Drum/batch trafersUse in contained batch processesPROC3	ans-	
Semi Automated process. (e.g Semi automatic application of floor care and maintenance pr ucts)PROC4		

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10 (0) ; 5: :	
ManualSurfacesCleaningDipping,	No other specific measures identified.
immersion and pouringPROC13	
Cleaning with low-pressure wash-	No other specific measures identified.
ersRolling, Brushingno spray-	
ingPROC10	
Cleaning with high pressure	Limit the substance content in the product to 5 %.
washersSprayingPROC11	Wear suitable gloves tested to EN374.
3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Other skin protection measures such as impervious suits
	and face shields may be required during high dispersion
	activities which are likely to lead to substantial aerosol re-
	lease, e.g. spraying.
	loudo, e.g. opraying.
ManualSurfacesCleaningPROC10	No other specific measures identified.
	'
Ad hoc manual application via	No other specific measures identified.
trigger sprays, dipping,	
etc.Rolling, BrushingPROC10	
Application of cleaning products in	No other specific measures identified.
closed systemsPROC4	
Hand-mixing with intimate contact	Wear suitable gloves tested to EN374.
and only PPE availablePROC19	, and the second
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 (tonne	s/year):	30
Fraction of Regional tonnage	used locally:	5,0E-04
Annual site tonnage (tonnes/	year):	0,015
Maximum daily site tonnage (0,041
Frequency and Duration of	Use	
Continuous release.		
Emission Days (days/year):		365
	nfluenced 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 wide dispersive use (regional only):		0,02
Release fraction to wastewater from wide dispersive use:		1,0E-06
Release fraction to soil from wide dispersive use (regional only):		0
Technical conditions and measures at process level (source) to prevent release		event release
Common practices vary across sites thus conservative process re-		
lease estimates used.		
	s and measures to reduce or limit disch	arges, air emis-
sions and releases to soil		
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 0		0

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the required removal efficiency of >= (%)		
If discharging to domestic sewage treatment plant, provide the re-	0	
quired onsite wastewater removal efficiency of (%)		
Organisational measures to prevent/limit release from site		
Do not apply industrial sludge to natural soils.		
Sludge should be incinerated, contained or reclaimed.		
Conditions and Measures related to municipal sewage treatment p	olant	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4	
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96,4	
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	670	
Assumed domestic sewage treatment plant flow (m3/d)	2.000	
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 regulations.	local and/or regional	

SECTION 3	EXPOSURE ESTIMATION
0 (' 0 4 11 141	

Section 3.1 - Health

The ECETOC TRA Version 3 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
Continu 4.4 Hanith	

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.

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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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Exposure Scenario - Worker

Exposure Scenario - Worker	
30000000889	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Cleaning Agents- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13 Environmental Release Categories: ERC4, ESVOC SpERC 4.4a.v1
Scope of process	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 MANA	AGEMENT
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP	
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,	
Frequency and Duration of	f 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 basis standard of assumptional business is implemented		

Assumes a good basic standard of occupational hygiene is implemented.

Contributing Scenarios	Risk Management Measures
Bulk transfersNon-dedicated facilityPROC8a	No other specific measures identified.
Automated process with (semi closed systems.Use in contain systemsPROC2	· ·
Automated process with (semi closed systems.Drum/batch trafersUse in contained batch processesPROC3	nns-
Application of cleaning product closed systemsPROC2	s in No other specific measures identified.
Filling/ preparation of equipme from drums or containers.PROC8b	nt No other specific measures identified.
Use in contained batch proces esPROC4	No other specific measures identified.

Degreasing small objects in

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No other specific measures identified.

begreasing small objects in	No other specific measures identifi	eu.
cleaning stationPROC13	No other constitues and constitues the state	
Cleaning with low-pressure washersPROC10	No other specific measures identifi	
Cleaning with high pressure	Provide a good standard of control	led ventilation (10 to 15
washersPROC7	air changes per hour).	
ManualSurfacesCleaningPROC10	No other specific measures identifi	ed.
Storage.PROC1	Store substance within a closed sy	rstem.
Section 2.2 Conf	rol of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Amounts Used		
Fraction of EU tonnage used in regi	ion:	0,1
Regional use tonnage (tonnes/year		38
Fraction of Regional tonnage used		1
Annual site tonnage (tonnes/year):	, ·	38
Maximum daily site tonnage (kg/day	<i>γ</i>).	1,900
Frequency and Duration of Use	,,,.	1,000
Continuous release.		
Emission Days (days/year):		20
Environmental factors not influer	nced by risk management	20
Local freshwater dilution factor:	iccu by risk management	10
Local freshwater dilution factor: Local marine water dilution factor:		100
Other Operational Conditions afford	ecting Environmental Exposure	100
Release fraction to air from process		0,3
Release fraction to wastewater from		1E-08
RMM):	·	12-00
Release fraction to soil from proces		0
	res at process level (source) to pr	event release
Common practices vary across site lease estimates used.	s thus conservative process re-	
	measures to reduce or limit disch	arges, air emis-
sions and releases to soil	a duivem by freebyyeter	1
Risk from environmental exposure i	s driven by ireshwater.	
Prevent discharge of undissolved substantial wastewater.	ubstance to or recover from onsite	
No wastewater treatment required.		
Treat air emission to provide a typic	cal removal efficiency of (%)	70
Treat onsite wastewater (prior to receiving water discharge) to provide		0
the required removal efficiency of >	= (%)	
If discharging to domestic sewage treatment plant, provide the re-		0
quired onsite wastewater removal e		
Organisational measures to prev		
Do not apply industrial sludge to na	tural soils.	
Sludge should be incinerated, conta	nined or reclaimed.	
Conditions and Measures related	to municipal sewage treatment p	lant
Julianio ana moadaros rolatos	to mamorpar corrage treatment p	

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Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4	
Total efficiency of removal from wastewater after onsite and offsite	96,4	
(domestic treatment plant) RMMs (%)		
Maximum allowable site tonnage (MSafe) based on release following	2,9E+06	
total wastewater treatment removal (kg/d)		
Assumed domestic sewage treatment plant flow (m3/d)	2.000	
Conditions and Massures related to external treatment of waste for disposal		

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 Version 3 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.

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Exposure Scenario - Worker

30000000880		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Uses in Coatings- Professional	
Use Descriptor	Sector of Use: SU22 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.3b.v1	
Scope of process	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	haracteristics	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP	
Concentration of the Sub-	Covers percentage substance in the product up to 100%.,	
stance in Mixture/Article	cle Unless stated otherwise.,	
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 the	an 20°C above ambient temperature (unless stated differently).	

Assumes use at not more than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.

Operation of the second of	D'-l Management Management
Contributing Scenarios	Risk Management Measures
General exposures (closed sy tems)PROC1	s- No other specific measures identified.
Filling/ preparation of equipme from drums or containers.Use contained systemsPROC2	
General exposures (closed sy tems)Use in contained systemsPROC2	s- No other specific measures identified.
Preparation of material for applicationUse in contained batch processesPROC3	No other specific measures identified.
Film formation - air dryingPR0	No other specific measures identified.
Preparation of material for apparationPROC5	No other specific measures identified.

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Material transfers Drum/batch	No other enecific measures identific	ad .
Material transfersDrum/batch transfersNon-dedicated facili-	No other specific measures identifie	tu.
tyPROC8a		
Material transfersDrum/batch	No other specific measures identifie	ad.
transfersDedicated facili-	No other specific measures identifie	Gu.
tyPROC8b		
Roller, spreader, flow applica-	No other specific measures identifie	ed.
tionPROC10		
ManualSprayingIndoorPROC11	Provide a good standard of controlle changes per hour). Avoid carrying out activities involvin 4 hours Wear suitable gloves tested to EN3 Other skin protection measures suc	g exposure for more than 74.
	face shields may be required during which are likely to lead to substantia spraying.	
ManualSprayingOutdoorPROC11	Ensure operation is undertaken outder Avoid carrying out activities involvin	
	4 hours Wear suitable gloves tested to EN3	
	Other skin protection measures suc	
	face shields may be required during	
	which are likely to lead to substantia	
	spraying.	
Dipping immercian and pour	No other specific measures identifie	nd
Dipping, immersion and pouringPROC13	No other specific measures identified.	
Laboratory activitiesPROC15	No other specific measures identifie	ed.
,	·	
Hand application - fingerpaints,	Provide a good standard of general ventilation (not less than	
pastels, adhesivesPROC19	3 to 5 air changes per hour).	
	Wear suitable gloves tested to EN374.	
Equipment cleaning and mainte-	No other specific measures identifie	-d
nancePROC8a	The strict opening measures identified	· · · ·
Storage.PROC1	Store substance within a closed sys	stem.
Section 2.2 Cor	Language Language	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Amounts Used		,
Fraction of EU tonnage used in re-	gion:	0,1
Regional use tonnage (tonnes/yea	r):	180
Fraction of Regional tonnage used		5,0E-04
Annual site tonnage (tonnes/year)		0,09
Maximum daily site tonnage (kg/da	ay):	0,25
Frequency and Duration of Use		
Continuous release.		365
Emission Days (days/year):		300

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Cocal marine water dilution factor: Other Operational Conditions affecting Environmental Exposure Release fraction to air from wide dispersive use (regional only): Release fraction to wastewater from wide dispersive use: Release fraction to soil from wide dispersive use (regional only): Release fraction to soil from wide dispersive use (regional only): O,01 Rechnical conditions and measures at process level (source) to prevent release Common practices vary across sites thus conservative process resease estimates used. Rechnical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Freat air emission to provide a typical removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide The required removal efficiency of >= (%) If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) Organisational measures to prevent/limit release from site 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 after onsite and offsite domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following olat wastewater treatment plant) RMMs (%) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or region regulations.	Local freshwater dilution factor:	10
Other Operational Conditions affecting Environmental Exposure Release fraction to air from wide dispersive use (regional only): Release fraction to wastewater from wide dispersive use: Release fraction to soil from wastewater or fractions and measures to reduce or limit discharges, air emissions and releases to soil Risk from environmental exposure is driven by freshwater. Row wastewater treatment required. Release fraction to soil from environmental exposure is driven by freshwater. Release fraction to soil from environmental exposure is driven by freshwater. Release fraction to soil from environmental exposure freshwater. Release fraction to soil from environmental exposure freshwater. Release fraction to soil from environmental from steed of (%) Release fraction to soil from wastewater plant, provide the required environmental exposure from site of the required environmental exposure from site of (%) Release fraction from wastewater related to municipal sewage treatment plant environmental exposure from treatment plant flow (maid) Release fraction for grow and fraction from wastewater release following otal wastewater treatment removal (kg/d) Resumed domestic sewage treatment plant flow (m3/d) Release fraction for grow waste for disposal external treatment and disposal of waste should comply with applicable local and/or region equilations.		
Release fraction to air from wide dispersive use (regional only): Release fraction to wastewater from wide dispersive use: Release fraction to soil from wide dispersive use (regional only): Rechnical conditions and measures at process level (source) to prevent release Common practices vary across sites thus conservative process release estimates used. Rechnical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Recat air emission to provide a typical removal efficiency of (%) Treat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficiency of (%) Recat air emission to provide a typical removal efficien		100
Release fraction to wastewater from wide dispersive use: Release fraction to soil from wide dispersive use (regional only): Release fraction to soil from wide dispersive use (regional only): Rechnical conditions and measures at process level (source) to prevent release Common practices vary across sites thus conservative process release estimates used. Rechnical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Freat air emission to provide a typical removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide he required removal efficiency of (%) Gischarging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) Organisational measures to prevent/limit release from site 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 reatment (%) Fotal efficiency of removal from wastewater after onsite and offsite domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or region regulations.		0.00
Release fraction to soil from wide dispersive use (regional only): Fechnical conditions and measures at process level (source) to prevent release Common practices vary across sites thus conservative process re- ease estimates used. Fechnical onsite conditions and measures to reduce or limit discharges, air emis- sions and releases to soil Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Foreat air emission to provide a typical removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) f discharging to domestic sewage treatment plant, provide the re- quired onsite wastewater removal efficiency of (%) Organisational measures to prevent/limit release from site 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 96,4 reatment (%) Fotal efficiency of removal from wastewater after onsite and offsite domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste		, , , , , , , , , , , , , , , , , , ,
Common practices vary across sites thus conservative process re- ease estimates used. Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Richarging to domestic sewage treatment plant, provide the re- quired onsite wastewater removal efficiency of (%) Conditions and Measures to prevent/limit release from site Conditions and Measures related to municipal sewage treatment plant Estimated substance removal from wastewater via domestic sewage reatment (%) Conditions and Measures related to municipal sewage treatment plant Estimated substance removal from wastewater via domestic sewage reatment (%) Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or regior regulations.		, , , , , , , , , , , , , , , , , , ,
Common practices vary across sites thus conservative process re- ease estimates used. Fechnical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Freat air emission to provide a typical removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) f discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) Freat onsite wastewater removal streament plant, provide the required onsite wastewater as from site Freatment on apply industrial sludge to natural soils. Freatment of the required reatment plant Freatment (%) Freat onsite wastewater reatment plant Freatment of the required reatment plant Freatment of the required removal plant flow (m3/d) Freat onsite wastewater reatment and disposal of waste should comply with applicable local and/or region regulations. Freatment removal recovery of waste		
rechnical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Freat air emission to provide a typical removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) f discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) Freat onsite wastewater removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of (%) Freat onsite wastewater afficiency of (%) Freat onsite wastewater afficiency of (%) Freat onsite wastewater plant soils. For an and Measures related to municipal sewage treatment plant Estimated substance removal from wastewater via domestic sewage Freatment (%) Freat onsite wastewater related to municipal sewage treatment plant Estimated substance removal from wastewater via domestic sewage Freatment (%) Freat original sewage treatment plant Freatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or region regulations. Freatment plant Freatment Frea		event release
Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Freat air emission to provide a typical removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide he required removal efficiency of >= (%) f discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) Drganisational measures to prevent/limit release from site 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 reatment (%) Fotal efficiency of removal from wastewater after onsite and offsite domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal external treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste	Common practices vary across sites thus conservative process re- lease estimates used.	
Risk from environmental exposure is driven by freshwater. No wastewater treatment required. Freat air emission to provide a typical removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide he required removal efficiency of >= (%) f discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) Drganisational measures to prevent/limit release from site 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 reatment (%) Fotal efficiency of removal from wastewater after onsite and offsite domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal external treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste	Technical onsite conditions and measures to reduce or limit disch	arges, air emis-
No wastewater treatment required. Freat air emission to provide a typical removal efficiency of (%) Freat onsite wastewater (prior to receiving water discharge) to provide he required removal efficiency of >= (%) f discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) Freat onsite wastewater removal efficiency of >= (%) f discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of (%) Freat onsite wastewater via domestic sewage treatment plant estimated substance removal from wastewater via domestic sewage estimated substance removal from wastewater via domestic sewage efficiency of removal from wastewater after onsite and offsite domestic treatment plant) RMMs (%) Froat efficiency of removal from wastewater after onsite and offsite editional wastewater treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal external treatment and disposal of waste should comply with applicable local and/or region egulations. Conditions and measures related to external recovery of waste	sions and releases to soil	•
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Conditions and Measures related to municipal sewage treatment plant Estimated substance removal from wastewater via domestic sewage reatment (%) Fotal efficiency of removal from wastewater after onsite and offsite domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal external treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste	Do not apply industrial sludge to natural soils.	
Conditions and Measures related to municipal sewage treatment plant Estimated substance removal from wastewater via domestic sewage reatment (%) Fotal efficiency of removal from wastewater after onsite and offsite domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal external treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste		
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Maximum allowable site tonnage (MSafe) based on release following otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal external treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste	•	,
otal wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste		230
Assumed domestic sewage treatment plant flow (m3/d) Conditions and Measures related to external treatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste	3 \ ,	
Conditions and Measures related to external treatment of waste for disposal External treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste		2.000
External treatment and disposal of waste should comply with applicable local and/or region regulations. Conditions and measures related to external recovery of waste	Conditions and Measures related to external treatment of waste fo	r disposal
Conditions and measures related to external recovery of waste		
	regulations.	
	Conditions and measures related to external recovery of waste	
		local and/or regiona

SECTION 3	EXPOSURE ESTIMATION	
Section 3.1 - Health		
The ECETOC TRA Version 3 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.

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

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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.

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Exposure Scenario - Worker

30000000879	30000000879	
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Uses in Coatings- Industrial	
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15 Environmental Release Categories: ERC4, ESVOC SpERC 4.3a.v1	
Scope of process	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 - 10 kPa at STP
Concentration of the Sub-	Covers percentage substance in the product up to 100%.,
stance in Mixture/Article	Unless stated otherwise.,
Frequency and Duration of	Use
Covers daily exposures up to	8 hours (unless stated differently).
Other Operational Conditio	
	in 20°C above ambient temperature (unless stated differently).
	ard 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.

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batch processesPROC3			
Film formation - air dry-	No other specific measures identified.		
ing(open systems)PROC4	The other specime measures identified.		
Preparation of material for	No other specific measures identified.		
applicationMixing opera-	The earler openine meadards lacritimea.		
tions (open sys-			
tems)PROC5			
Spraying (automat-	Provide a good standard of controlled ventilation (10 to 15 air		
ic/robotic)PROC7	changes per hour).		
ManualSprayingPROC7	Provide a good standard of controlled ventilation (10 to 15 air		
	changes per hour).		
Material transfersNon-	No other specific measures identified.		
dedicated facilityPROC8a	The earlier opening measures recruitment		
Material transfersDedicated	No other specific measures identified.		
facilityPROC8b	·		
Roller, spreader, flow appli-	No other specific measures identified.		
cationPROC10			
Dipping, immersion and	No other specific measures identified.		
pouringPROC13			
Laboratory activi-	No other specific measures identified.		
tiesPROC15			
Material trans-	No other specific measures identified.		
fersDrum/batch transfer-			
sTransfer from/pouring from			
containersPROC9			
Production or preparation	No other specific measures identified.		
or articles by tabletting,			
compression, extrusion or			
pelletisationPROC14	No ather and discourse identified		
Equipment cleaning and maintenancePROC8a	No other specific measures identified.		
Storage.PROC1	Store substance within a closed system.		
Storage.FIXOC1	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			
Regional use tonnage (tonne			
Fraction of Regional tonnage			
Annual site tonnage (tonnes/			
Maximum daily site tonnage (
Frequency and Duration of Use			
Continuous release.			
Emission Days (days/year):	20		
Environmental factors not i	Environmental factors not influenced by risk management		
Local freshwater dilution factor			
Local marine water dilution fa			
Other Operational Conditions affecting Environmental Exposure			

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Release fraction to air from process (initial release prior to RMM):	0,98	
Release fraction to wastewater from process (initial release prior to	2,0E-05	
RMM):		
Release fraction to soil from process (initial release prior to RMM):	0	
Technical conditions and measures at process level (source) to pro	event release	
Common practices vary across sites thus conservative process re-		
lease estimates used.		
Technical onsite conditions and measures to reduce or limit disch	arges, air emis-	
sions and releases to soil	T-	
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 onsite		
wastewater treatment required.		
Treat air emission to provide a typical removal efficiency of (%)	90	
Treat onsite wastewater (prior to receiving water discharge) to provide	61,2	
the required removal efficiency of >= (%)		
If discharging to domestic sewage treatment plant, provide the re-	0	
quired onsite wastewater removal efficiency of (%)		
Organisational measures to prevent/limit release from site		
Do not apply industrial sludge to natural soils.		
Sludge should be incinerated, contained or reclaimed.		
Canditions and Massures related to municipal courses treatment of	lant	
Conditions and Measures related to municipal sewage treatment p	96.4	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4	
Total efficiency of removal from wastewater after onsite and offsite	96,4	
(domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following	2,3E+05	
total wastewater treatment removal (kg/d)	2,30+00	
Assumed domestic sewage treatment plant flow (m3/d)	2.000	
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.	local allu/ol regional	
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 Version 3	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.

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SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
	LAFOSURE SCENARIO
Castian 4.4 Haskin	

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.

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Exposure Scenario - Worker

30000000878	•
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Formulation & (re)packing of substances and mixtures- Industrial
Use Descriptor	Sector of Use: SU3, SU10 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15 Environmental Release Categories: ERC2, ESVOC SpERC 2.2.v1
Scope of process	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tabletting, 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 - 10 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 Condition	ns affecting Exposure
Assumes use at not more that	an 20°C above ambient temperature (unless stated differently).
A	and of a commette well browledge to top allow a set of

Assumes a good basic standard of occupational hygiene is implemented.

Contributing Scenarios Risk Management Measures General exposures (closed No other specific measures identified. systems)PROC1PROC2PROC3 General exposures (open sys-No other specific measures identified. tems)PROC4 Batch processes at elevated No other specific measures identified. temperaturesUse in contained batch processesOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC3 Process samplingPROC3 No other specific measures identified. Laboratory activitiesPROC15 No other specific measures identified. Bulk transfersPROC8b No other specific measures identified.

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Mixing operations (open systems)PROC5	No other specific measures identified	d.
ManualTransfer from/pouring	No other specific measures identified	d.
from containersNon-dedicated	'	
facilityPROC8a		
Drum/batch transfersDedicated	No other specific measures identified	d.
facilityPROC8b		
Production or preparation or	No other specific measures identified	d.
articles by tabletting, compres-		
sion, extrusion or pelletisa-		
tionPROC14	N	1
Drum and small package fill-	No other specific measures identified	J.
ingPROC9	No other english management identifies	1
Equipment cleaning and maintenancePROC8a	No other specific measures identified	1.
Storage.PROC1PROC2	Store substance within a closed evet	om
Storage.PROCTPROC2	Store substance within a closed syst	em.
Section 2.2 Co	entrol of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Amounts Used		
Fraction of EU tonnage used in re	egion:	0,1
Regional use tonnage (tonnes/ye	ar):	95
Fraction of Regional tonnage use	d locally:	1
Annual site tonnage (tonnes/year):	95
Maximum daily site tonnage (kg/c		9.500
Frequency and Duration of Use	•	
Continuous release.		
Emission Days (days/year):		10
Environmental factors not influ	enced by risk management	
Local freshwater dilution factor:		10
Local marine water dilution factor		100
	ffecting Environmental Exposure	
	ss (after typical onsite RMMs con-	0,98
sistent with EU Solvent Emissions		
	om process (initial release prior to	5,0E-06
RMM):		
Release fraction to soil from proc		1,0E-04
	ures at process level (source) to pro-	event release
Common practices vary across si	tes thus conservative process re-	
lease estimates used.	d magaziraa ta radiisa ar limit diaab	organ sir amis
sions and releases to soil	d measures to reduce or limit disch	arges, air emis-
	e is driven by freshwater sediment.	
	substance to or recover from onsite	
wastewater.		
No wastewater treatment required	d.	
Treat air emission to provide a type		0
	receiving water discharge) to provide	0
the required removal efficiency of		

0

the required removal efficiency of >= (%)

If discharging to domestic sewage treatment plant, provide the re-

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quired onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment p	lant
Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96,4
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	9,1E+05
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste fo	r disposal
External treatment and disposal of waste should comply with applicable regulations.	e local and/or regional
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable regulations.	local and/or regional

SECTION 3 EXPOSURE ESTIMATION

Section 3.1 - Health

The ECETOC TRA Version 3 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.

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Exposure Scenario - Worker

200000000077	
30000000877	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Distribution of substance- Industrial
Use Descriptor	Sector of Use: SU3, SU8, SU9
	Process Categories: PROC1, PROC2, PROC3, PROC4,
	PROC8a, PROC8b, PROC9, PROC15
	Environmental Release Categories: ERC1, ERC2, ERC3,
	ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7,
	ESVOC SpERC 1.1b.v1
	Ευνου ορείτο π.τυ.ντ
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
Product Characteristics	
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100%., Unless stated otherwise.,
Frequency and Duration of	f Use
Covers daily exposures up t	o 8 hours (unless stated differently).
Other Operational Conditi	ons affecting Exposure
	nan 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)PROC1PROC2PRO	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 fill-ingPROC9	No other specific measures identified.
Equipment cleaning and maintenancePROC8a	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

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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):	230
Fraction of Regional tonnage used locally:	2,0E-03
Annual site tonnage (tonnes/year):	0,46
Maximum daily site tonnage (kg/day):	23
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):	1,0E-02
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
Technical conditions and measures at process level (source) to pr	revent release
Common practices vary across sites thus conservative process re-	
lease estimates used.	
Technical onsite conditions and measures to reduce or limit disch sions and releases to soil	arges, air emis-
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 (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, provide the re-	0
quired onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment p	lant
Estimated substance removal from wastewater via domestic sewage	96,4
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96,4
(domestic treatment plant) RMMs (%)	<u> </u>
Maximum allowable site tonnage (MSafe) based on release following	7,0E+04
total wastewater treatment removal (kg/d)	0.000
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste for	
External treatment and disposal of waste should comply with applicable	a local and/or roa

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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 Version 3 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.

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Exposure Scenario - Worker

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30000000876	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Manufacture of substance- Industrial
Use Descriptor	Sector of Use: SU3, SU8, SU9 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15 Environmental Release Categories: ERC1, ERC4, ESVOC
Scope of process	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 RIS MEASURES	K MANAGEMENT
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at S	TP
Concentration of the Sub-	Covers percentage substance in the product up to 100%.,	
stance in Mixture/Article	Unless stated otherwise.,	
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)PROC1PROC2PRO	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

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Substance is complex UVCB.	
Predominantly hydrophobic.	
Amounts Used	
Fraction of EU tonnage used in region:	0,1
Regional use tonnage (tonnes/year):	2,4E+03
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	2,4E+03 2,4E+04
Maximum daily site tonnage (kg/day):	2,40+04
Frequency and Duration of Use	<u> </u>
Continuous release.	400
Emission Days (days/year):	100
Environmental factors not influenced by risk management	1.0
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
Other Operational Conditions affecting Environmental Exposure	T =
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-05
Release fraction to soil from process (initial release prior to RMM):	1,0E-04
Technical conditions and measures at process level (source) to pre	event release
Common practices vary across sites thus conservative process re-	
lease estimates used.	
Technical onsite conditions and measures to reduce or limit discha-	arges, air emis-
sions and releases to soil	
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 (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide	0
the required removal efficiency of >= (%)	
If discharging to domestic sewage treatment plant, provide the re-	0
quired onsite wastewater removal efficiency of (%)	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
Conditions and Measures related to municipal sewage treatment pl	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96,4
Maximum allowable site tonnage (MSafe) based on release following	2,3E+06
total wastewater treatment removal (kg/d)	_,0_100
Assumed domestic sewage treatment plant flow (m3/d)	10.000
Conditions and Measures related to external treatment of waste for	
During manufacturing no waste of the substance is generated.	- นเอคบอลเ
Conditions and measures related to external recovery of waste	
During manufacturing no waste of the substance is generated.	

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SECTION 3 EXPOSURE ESTIMATION

Section 3.1 - Health

The ECETOC TRA Version 3 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.

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Exposure Scenario - Worker

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30000010709	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Rubber production and processing- Industrial
Use Descriptor	Sector of Use: SU3 Process Categories: PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC13, PROC14, PROC15, PROC21 Environmental Release Categories: ERC1, ERC4, ERC6d, ESVOC SpERC 4.19.v1
Scope of process	Manufacture of tyres and general rubber articles, including processing of raw (uncured) rubber, handling and mixing of rubber additives, vulcanising, cooling and finishing.

SECTION 2	OPERATIONAL CONDITIONS AND RISK M. MEASURES	ANAGEMENT	
Section 2.1	Control of Worker Exposure		
Product Characteristics	Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP		
Concentration of the Substance in Mixture/Article	Covers percentage substance in the product unless stated otherwise.,	up to 100%.,	
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	Ris	k Management Measures
Material transfers(closed sys-		No other specific measures identified.
tems)PROC1PROC2		
Material transfersDedicated fac	cil-	No other specific measures identified.
ityPROC8aPROC8bPROC9		
Bulk weighingUse in contained	t	No other specific measures identified.
systemsPROC1PROC2		
Small scale weighingPROC9		No other specific measures identified.
Additive premix-		No other specific measures identified.
ingPROC3PROC4PROC5		
Calendering (including Banbur	'-	No other specific measures identified.
ys)Operation is carried out at		
elevated temperature (> 20°C		
above ambient tempera-		
ture).PROC6		
Pressing uncured rubber blank	(-	No other specific measures identified.
sPROC14		
Tyre build upPROC7		Provide a good standard of controlled ventilation (10 to 15 air

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		changes per hour).	
VulcanisationOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC6		No other specific measures identifie	d.
Cooling cured articlesOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC6		No other specific measures identifie	d.
Production of articles by dipping and pouringPROC13		No other specific measures identifie	d.
Finishing operationsPROC21		No other specific measures identifie	d.
Laboratory activitiesPROC15		No other specific measures identifie	d.
Equipment maintenance- PROC8a		No other specific measures identifie	d.
Storage.PROC1		Store substance within a closed sys	tem.
Storage.PROC2		Store substance within a closed sys	tem.
Section 2.2	Control of Environmental Exposure		
Substance is complex UVCB.			
Predominantly hydrophobic.			
Amounts Used			
Fraction of EU tonnage used in reg		gion:	0,1
Regional use tonnage (tonnes/year			5,0E+00
Fraction of Regional tonnage used			1
Annual site tonnage (tonnes/year):			5,0E+00

		•
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 (tonne	es/year):	5,0E+00
Fraction of Regional tonnage	e used locally:	1
Annual site tonnage (tonnes	/year):	5,0E+00
Maximum daily site tonnage	(kg/day):	2,5E+02
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 Condition	ons affecting Environmental Exposure	
Release fraction to air from process (initial release prior to RMM):		0,01
RMM):	ter from process (initial release prior to	1,0E-05
Release fraction to soil from process (initial release prior to RMM):		0,0001
Technical conditions and r	neasures at process level (source) to pr	event release
Common practices vary across sites thus conservative process re-		
lease estimates used.		
	s and measures to reduce or limit disch	arges, air emis-
sions and releases to soil		_
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		0,0

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the required removal efficiency of >= (%)			
If discharging to domestic sewage treatment plant, provide the re-	0,0		
quired onsite wastewater removal efficiency of (%)			
Organisational measures to prevent/limit release from site			
Prevent discharge of undissolved substance to or recover from onsite wastewater.			
Do not apply industrial sludge to natural soils.			
Sludge should be incinerated, contained or reclaimed.			
Conditions and Measures related to municipal sewage treatment plant			
Not applicable as there is no release to wastewater.			
Estimated substance removal from wastewater via domestic sewage	96,4		
treatment (%)			
Total efficiency of removal from wastewater after onsite and offsite	96,4		
(domestic treatment plant) RMMs (%)			
Maximum allowable site tonnage (MSafe) based on release following	2,9E+04		
total wastewater treatment removal (kg/d)			
Assumed domestic sewage treatment plant flow (m3/d)	2.000		
Conditions and Measures related to external treatment of waste fo	r 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 regulations.	local and/or regional		

SECTION 3	EXPOSURE ESTIMATION

Section 3.1 - Health

The ECETOC TRA Version 3 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

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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.

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Exposure Scenario - Consumer

30000001153		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Functional Fluids - Consumer	
Use Descriptor	Sector of Use: SU21 Product Categories: PC16, PC17 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.13c.v1	
Scope of process	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.	

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 at STP	
Concentration of the Substance in Mixture/Article	Unless stated otherwise.	
	Covers concentration up to (%): 100	%
Amounts Used		
Unless stated otherwise.		
covers amount up to (g):		2.200
covers skin contact area (cr	n2):	468
Frequency and Duration of	f Use	
Unless stated otherwise.		
Covers use up to (days/year):		4
covers use up to (times/day of use):		1
Covers exposure up to (hours/event):		0,17
Other Operational Conditi	ons affecting Exposure	

Unless stated otherwise.

Covers use at ambient temperatures.

Covers use in room size of 20m3

Covers use under typical household ventilation.

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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
	for each use event Covers exposure up to 0,17 hours/event
Hydraulic fluids Liquids.	Covers concentrations up to 100 %

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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
for each use event Covers exposure up to 0,17 hours/event

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	s/year):	10
Fraction of Regional tonnage	used locally:	5,0E-04
Annual site tonnage (tonnes/)	/ear):	5,0E-03
Maximum daily site tonnage (kg/day):	0,014
Frequency and Duration of	Use	
Continuous release.		
Emission Days (days/year):		365
Environmental factors not i	nfluenced by risk management	
Local freshwater dilution factor:		10
Local marine water dilution factor:		100
Other Operational Conditions affecting Environmental Exposure		
	ide dispersive use (regional only):	0,05
Release fraction to wastewate		0,025
	vide dispersive use (regional only):	0,025
	elated to municipal sewage treatment p	plant
Risk from environmental expo		
Estimated substance removal	from wastewater via domestic sewage	96,4
treatment (%)		
	age (MSafe) based on release following	20
total wastewater treatment re		
Assumed domestic sewage treatment plant flow (m3/d) 2.000		
	elated to external treatment of waste fo	
External treatment and disposal regulations.	sal of waste should comply with applicable	e local and/or region-

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 consumer exposures unless otherwise		
indicated.		

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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.

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Exposure Scenario - Consumer

30000001151	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as a fuel - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC13 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.12c.v1
Scope of process	Covers consumer uses in liquid fuels.

SECTION 2	OPERATIONAL CONDITIONS AN MEASURES	ND RISK MANAGEMENT
Section 2.1	Control of Consumer Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure > 10 Pa at	STP
Concentration of the Substance in Mixture/Article	Unless stated otherwise.	
	Covers concentration up to (%): 10	00 %
Amounts Used		
Unless stated otherwise.		
for each use event, covers a	mount up to (g):	37.500
covers skin contact area (cn	n2):	420
Frequency and Duration o	f Use	
Unless stated otherwise.		
Covers use up to (days/year):		365
covers use up to (times/day	of use):	1
Exposure (hours/event): 2		2
Other Operational Conditions affecting Exposure		

Unices stated athematics

Unless stated otherwise.

Covers use at ambient temperatures.

Covers use in room size of 20m3

Covers use under typical household ventilation.

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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
	for each use event Covers exposure up to 0,05 hours/event
Fuels Liquid Scooter Refuelling.	Covers concentrations up to 100 %

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	covers use up to 52 day/year
	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 3.750 g
	Covers outdoor use.
	Covers use in room size of 100 m3
	for each use event 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
	for each use event 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
	for each use event 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
	for each use event 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
	for each use event Covers exposure up to 0,01 hours/event
	1 101 Cach add event bevers exposure up to 0,01 hours/event

Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Amounts Used		
Fraction of EU tonnage used in region: 0,1		0,1
Regional use tonnage (tonnes/year): 30		30
Fraction of Regional tonnage used locally: 5,0E-04		5,0E-04

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Annual site tonnage (tonnes/year):	0,015
Maximum daily site tonnage (kg/day):	0,041
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 wide dispersive use (regional only):	1,0E-03
Release fraction to wastewater from wide dispersive use:	1,0E-05
Release fraction to soil from wide dispersive use (regional only):	1,0E-05
Conditions and Measures related to municipal sewage treatment p	olant
Risk from environmental exposure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96,4
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	67
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste for	r disposal
Combustion emissions limited by required exhaust emission controls.	
Waste combustion emissions considered in regional exposure assessn	nent.
Conditions and measures related to external recovery of waste	
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 consumer 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

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Exposure Scenario - Consumer

expectate contains contains	
30000001150	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants - Consumer High Environmental Release
Use Descriptor	Sector of Use: SU21
	Product Categories: PC1, PC24, PC31
	Environmental Release Categories: ERC8a, ERC8d,
	ESVOC SpERC 8.6e.v1
	EGVOG OPENO 0.00.V1
Scope of process	Covers the consumer use of formulated lubricants in closed
Scope of process	
	and open systems including transfer operations, application,
	operation of engines and similar articles, equipment mainte-
	nance 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 at STP		
Concentration of the Substance in Mixture/Article	Unless stated otherwise.		
	Covers concentration up to (%): 100 %		
Amounts Used	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.	Unless stated otherwise.		
Covers use up to (days/year):		365	
covers use up to (times/day of use):		1	
Exposure (hours/event): 6		6	
Other Operational Conditions affecting Exposure			
I I alice a state di attaca di la constanti	· · · · · · · · · · · · · · · · · · ·	·	

Unless stated otherwise.

Covers use at ambient temperatures.

Covers use in room size of 20m3

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 5 g	
	Covers use under typical household ventilation.	
	Covers use in room size of 20 m3	

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	for each use event Covers exposure up to 4,00 hours/event		
Adhesives, sealants Glues	Covers concentrations up to 30 %		
DIY-use (carpet glue, tile	Covers concentrations up to 30 %		
glue, wood parquet glue).			
giao, iroca parquot giao).	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		
	for each use event Covers exposure up to 6,00 hours/event		
Adhesives, sealants Glue	Covers concentrations up to 30 %		
from spray.	Covere controlling ap to co /c		
	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		
	for each use event Covers exposure up to 4,00 hours/event		
Adhesives, sealants Seal-	Covers concentrations up to 30 %		
ants.	Covers concentrations up to 30 %		
uno.	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 25 g		
	Covers use under typical household ventilation.		
	Covers use in room size of 20 m3		
	for each use event Covers exposure up to 1,00 hours/event		
Lubricants, greases, re-	Covers concentrations up to 100 %		
lease products Liquids.	Covers concentrations up to 100 %		
p Eldardo.	covers use up to 4 day/year		
p. casaco Elquido.	covers use up to 4 day/year Covers use up to 1 times/day of use		
p.eessio Eigano.	Covers use up to 1 times/day of use		
	Covers use up to 1 times/day of use covers skin contact area up to (cm2): 468,00 cm2		
	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		
p	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-		
The second by th	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 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 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 for each use event Covers exposure up to 0,17 hours/event		
Lubricants, greases, re-	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 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 for each use event Covers exposure up to 0,17 hours/event Covers concentrations up to 20 %		
Lubricants, greases, re-	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 for each use event Covers exposure up to 0,17 hours/event Covers concentrations up to 20 % covers use up to 10 day/year		
Lubricants, greases, re-	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 for each use event Covers exposure up to 0,17 hours/event Covers concentrations up to 20 % covers use up to 10 day/year Covers use up to 1 times/day of use		
Lubricants, greases, re-	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 for each use event Covers exposure up to 0,17 hours/event 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		
Lubricants, greases, re-	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 for each use event Covers exposure up to 0,17 hours/event 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		
Lubricants, greases, re- lease products Pastes.	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 for each use event Covers exposure up to 0,17 hours/event 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 for each use event Covers exposure up to 4,00 hours/event		
Lubricants, greases, re- lease products Pastes.	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 for each use event Covers exposure up to 0,17 hours/event 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		
Lubricants, greases, re- lease products Pastes.	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 for each use event Covers exposure up to 0,17 hours/event 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 for each use event Covers exposure up to 4,00 hours/event Covers concentrations up to 50 %		
Lubricants, greases, re- lease products Pastes.	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 for each use event Covers exposure up to 0,17 hours/event 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 for each use event Covers exposure up to 4,00 hours/event		

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	-	
	For each use event, covers amount up to 73 g	
	Covers use under typical household ventilation.	
	Covers use in room size of 20 m3	
	for each use event Covers exposure up to 0,17 hours/event	
Polishes and wax blends	Covers concentrations up to 50 %	
Polishes, wax / cream		
(floor, furniture, shoes).		
	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	
	for each use event Covers exposure up to 1,23 hours/event	
Polishes and wax blends	Covers concentrations up to 50 %	
Polishes, spray (furniture,	·	
shoes).		
	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	
	for each use event Covers exposure up to 0,33 hours/event	

Section 2.2 Control of Environmental Exposure			
Substance is complex UVCB.			
Predominantly hydrophobic.			
Amounts Used			
Fraction of EU tonnage used		0,1	
Regional use tonnage (tonne		2	
Fraction of Regional tonnage	used locally:	5,0E-04	
Annual site tonnage (tonnes/	year):	1,0E-03	
Maximum daily site tonnage ((kg/day):	2,7E-03	
Frequency and Duration of	Use		
Continuous release.			
Emission Days (days/year):		365	
	nfluenced by risk management		
Local freshwater dilution factor:		10	
Local marine water dilution factor:		100	
	ns affecting Environmental Exposure		
	ride dispersive use (regional only):	0,15	
Release fraction to wastewater from wide dispersive use:		0,05	
Release fraction to soil from wide dispersive use (regional only):		0,05	
Conditions and Measures related to municipal sewage treatment plant			
Risk from environmental exposure is driven by freshwater.			
Estimated substance removal from wastewater via domestic sewage		96,4	
treatment (%)			
Maximum allowable site tonnage (MSafe) based on release following		4,3	
total wastewater treatment removal (kg/d)			

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Assumed domestic sewage treatment plant flow (m3/d)

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 consumer 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.

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Exposure Scenario - Consumer

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SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Lubricants - Consumer Low Environmental Release	
Use Descriptor	Sector of Use: SU21 Product Categories: PC1, PC24, PC31 Environmental Release Categories: ERC9a, ERC9b, ESVOC SpERC 9.6d.v1	
Scope of process	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	Product Characteristics			
Physical form of product	Liquid, vapour pressure > 10 Pa at STP			
Concentration of the Substance 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): 6		6		
Other Operational Conditions affecting Exposure				
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Unless stated otherwise.

Covers use at ambient temperatures.

Covers use in room size of 20m3

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	

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	for each use event Covers exposure up to 4,00 hours/event		
Adhesives, sealants Glues	Covers concentrations up to 30 %		
DIY-use (carpet glue, tile	Govers concentrations up to 30 %		
glue, wood parquet glue).			
grae, weed parquet grae).	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		
	for each use event Covers exposure up to 6,00 hours/event		
Adhesives, sealants Glue	Covers concentrations up to 30 %		
from spray.			
	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		
	for each use event Covers exposure up to 4,00 hours/event		
Adhesives, sealants Seal-	Covers concentrations up to 30 %		
ants.	Covore consornations up to co 70		
	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 25 g		
	Covers use under typical household ventilation.		
	Covers use in room size of 20 m3		
	for each use event Covers exposure up to 1,00 hours/event		
Lubricants, greases, re-	Covers concentrations up to 100 %		
lease products Liquids.			
'	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		
	for each use event Covers exposure up to 0,17 hours/event		
Lubricants, greases, re-	Covers concentrations up to 20 %		
lease products Pastes.	'		
•	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		
	for each use event Covers exposure up to 4,00 hours/event		
Lubricants, greases, re-	Covers concentrations up to 50 %		
lease products Sprays.			
	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		

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	For each use event, covers amount up to 73 g	
	Covers use under typical household ventilation.	
	Covers use in room size of 20 m3	
	for each use event Covers exposure up to 0,17 hours/event	
Polishes and wax blends	Covers concentrations up to 50 %	
Polishes, wax / cream		
(floor, furniture, shoes).		
	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	
	for each use event Covers exposure up to 1,23 hours/event	
Polishes and wax blends	Covers concentrations up to 50 %	
Polishes, spray (furniture,		
shoes).		
	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	
	for each use event Covers exposure up to 0,33 hours/event	

Section 2.2 Control of Environmental Exposure				
Substance is complex UVCB.				
Predominantly hydrophobic.				
Amounts Used	Amounts Used			
Fraction of EU tonnage used	in region:	0,1		
Regional use tonnage (tonne	s/year):	2		
Fraction of Regional tonnage	used locally:	5,0E-04		
Annual site tonnage (tonnes/	year):	1,0E-03		
Maximum daily site tonnage (kg/day):	2,7E-03		
Frequency and Duration of	Use			
Continuous release.				
Emission Days (days/year):		365		
Environmental factors not i	nfluenced by risk management			
Local freshwater dilution factor:		10		
Local marine water dilution factor:		100		
	ns affecting Environmental Exposure			
	ide dispersive use (regional only):	0,01		
Release fraction to wastewate	er from wide dispersive use:	0,01		
Release fraction to soil from wide dispersive use (regional only):		0,01		
Conditions and Measures related to municipal sewage treatment plant				
Risk from environmental exposure is driven by freshwater.				
Estimated substance removal from wastewater via domestic sewage		96,4		
treatment (%)				
Maximum allowable site tonnage (MSafe) based on release following		4,4		
total wastewater treatment removal (kg/d)				

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Assumed domestic sewage treatment plant flow (m3/d)

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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 consumer 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.

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Exposure Scenario - Consumer

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SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in Cleaning Agents - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC3, PC4, PC8 (excipient only), PC9a, PC24, PC35, PC38 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.4c.v1
Scope of process	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.

SECTION 2	OPERATIONAL CONDITIONS AND RI MEASURES	SK MANAGEMENT
Section 2.1	Control of Consumer Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure > 10 Pa at STP	
Concentration of the Substance in Mixture/Article	Unless stated otherwise.	
	Covers concentration up to (%): 100 %	
Amounts Used		
Unless stated otherwise.		
for each use event, covers a	mount up to (g):	13.800
covers skin contact area (cm	2):	857,5
Frequency and Duration of	Use	
Unless stated otherwise.		
Covers use up to (days/year): 365		365
covers use up to (times/day of use):		4
Covers exposure up to (hours/event): 8		8
Other Operational Condition	ns affecting Exposure	
Unless stated otherwise.		
Covers use at ambient temper		
Covers use in room size of 20m3		
Covers use under typical hou	usehold ventilation.	

Product Categories	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
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.

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	Covers use in room size of 20 m3
	for each use event Covers exposure up to 0,25 hours/event
Air care products Air care,	Covers concentrations up to 50 %
instant action (aerosol	Covere contentinations up to 50 //
sprays). pesticides (excipi-	
ent only).	
	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
	for each use event 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
	for each use event 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
	for each use event 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 ventila-
	tion.
	Covers use in room size of 34 m3
	for each use event 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-

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

ShellSol 140/165

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Covers use in room size of 34 m3 for each use event Covers exposure up to 0,17 hours/event Covers concentrations up to 50 % covers use up to 365 day/year Covers use up to 1 times/day of use covers use in a one car garage (34 m3) under typical ventila- tion. Covers use in a one car garage (34 m3) under typical ventila- tion. Covers use in noom size of 34 m3 for each use event Covers exposure up to 0,25 hours/event Covers use in room size of 34 m3 for each use event Covers exposure up to 0,25 hours/event 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 up to 1 times/day of use covers skin contact area up to (m2): 857,50 cm2 For each use event Covers exposure up to 0,50 hours/event Covers use under typical household ventilation. Covers use under typical household ventilation. Covers use up to 128 day/year Covers use up to 5 % Covers use up to 10 ms. Covers use up to 15 ms. Covers use up to 0,50 hours/event Covers use up to 128 day/year Covers use up to 128 day/year Covers use up to 128 day/year Covers use up to 17 ms. Covers use up to 17 ms. Covers use up to 18 day/year Covers		I Kan
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For each use event, covers amount up to 35 g Covers use under typical household ventilation.		
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CANDO NO		Covers use in room size of 20 m3

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	for each use event Covers exposure up to 0,17 hours/event
Coatings and paints, thin-	Covers concentrations up to 1,5 %
ners, paint removers Wa-	, , , , , , , , , , , , , , , , , , , ,
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
	for each use event Covers exposure up to 2,2 hours/event
Coatings and paints, thin-	Covers concentrations up to 27,5 %
ners, paint removers Sol-	
vent rich, high solid, water	
borne paint.	
•	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
	for each use event Covers exposure up to 2,2 hours/event
Coatings and paints, thin-	Covers concentrations up to 50 %
ners, paint removers Aero-	'
sol spray can.	
• •	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 under typical household ventilation.
	Covers use in room size of 34 m3
	for each use event Covers exposure up to 0,33 hours/event
Coatings and paints, thin-	Covers concentrations up to 50 %
ners, paint removers Re-	'
movers (paint-, glue-, wall	
paper-, 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
	for each use event Covers exposure up to 2,00 hours/event
Lubricants, greases, re-	Covers concentrations up to 100 %
lease products Liquids.	· ·
· · · · · · · · · · · · · · · · · · ·	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

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ShellSol 140/165

Version Revision Date: SDS Number: Date of last issue: 23.11.2023

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

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regulations.

Version Revision Date: SDS Number: Date of last issue: 23.11.2023

3.4 12.12.2023 800001006178 Print Date 19.12.2023

	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
	for each use event 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
	for each use event Covers exposure up to 1,00 hours/event

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 (tonne	s/year):	10
Fraction of Regional tonnage	used locally:	5,0E-04
Annual site tonnage (tonnes/	year):	5,0E-03
Maximum daily site tonnage ((kg/day):	0,014
Frequency and Duration of	Use	
Continuous release.		
Emission Days (days/year):	365	
Environmental factors not i	influenced by risk management	
Local freshwater dilution factor	or:	10
Local marine water dilution fa		100
Other Operational Conditio	ns affecting Environmental Exposure	
	ride dispersive use (regional only):	0,95
Release fraction to wastewat	er from wide dispersive use:	0,025
Release fraction to soil from wide dispersive use (regional only):		0,025
Conditions and Measures r	elated to municipal sewage treatment p	olant
Risk from environmental expo	osure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage		96,4
treatment (%)		
Maximum allowable site tonnage (MSafe) based on release following		20
total wastewater treatment re		
Assumed domestic sewage treatment plant flow (m3/d)		2.000
	elated to external treatment of waste fo	
	sal of waste should comply with applicable	e local and/or region-
al regulations.		
Conditions and measures r	elated to external recovery of waste	

	SECTION 3	EXPOSURE ESTIMATION
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External recovery and recycling of waste should comply with applicable local and/or regional

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

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Section 3.1 - Health

The ECETOC TRA tool has been used to estimate consumer 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

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Exposure Scenario - Consumer

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SECTION 1	EXPOSURE SCENARIO TITLE
Title	Uses in Coatings - Consumer
Use Descriptor	Sector of Use: SU21 Product Categories: PC1, PC4, PC8 (excipient only), PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.3c.v1
Scope of process	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 A MEASURES	AND RISK MANAGEMENT	
Section 2.1	Control of Consumer Exposure	e	
Product Characteristics			
Physical form of product	Liquid, vapour pressure > 10 Pa		
Concentration of the Substance 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		13.800	
covers skin contact area (cm2): 857,5		857,5	
Frequency and Duration of Use			
Unless stated otherwise.			
Covers use up to (days/year): 365		365	
covers use up to (times/day of use):		1	
Exposure (hours/event): 6		6	
Other Operational Conditions affecting Exposure			
Unless stated otherwise.			

Covers use at ambient temperatures.

Covers use in room size of 20m3

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.	

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	Covers use in room size of 20 m3
	for each use event Covers exposure up to 4 hours/event
Adhesives, sealants Glues	Covers concentrations up to 30 %
DIY-use (carpet glue, tile	Covers concentrations up to 30 %
glue, wood parquet glue).	
gide, wood parquet gide).	covers use up to 1 day/year
	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
	for each use event Covers exposure up to 6,00 hours/event
Adhesives, sealants Glue	Covers concentrations up to 30 %
from spray.	
	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
	for each use event Covers exposure up to 4,00 hours/event
Adhesives, sealants Seal-	Covers concentrations up to 30 %
ants.	· ·
	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
	for each use event Covers exposure up to 1,00 hours/event
Anti-Freeze and de-icing	Covers concentrations up to 1 %
products Washing car win-	
dow.	
	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-
	tion.
	Covers use in room size of 34 m3
	for each use event Covers exposure up to 0,02 hours/event
Anti-Freeze and de-icing	Covers concentrations up to 10 %
products Pouring into radia-	Ouvers concentrations up to 10 /0
tor.	
	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-
	tion.
	Covers use in room size of 34 m3

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Auti Fusses and de inion	0
Anti-Freeze and de-icing	Covers concentrations up to 50 %
products Lock de-icer.	account was the OCE dayly acr
	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
	for each use event Covers exposure up to 0,25 hours/event
Biocidal products (e.g. Dis- infectants, pest control) (excipient only). Laundry and dish washing products.	Covers concentrations up to 5 %
and dien maening producter	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
	for each use event Covers exposure up to 0,50 hours/event
Biocidal products (e.g. Dis-	Covers concentrations up to 5 %
(excipient only). Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	
	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
	for each use event Covers exposure up to 0,33 hours/event
Biocidal products (e.g. Dis- infectants, 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
	for each use event Covers exposure up to 0,17 hours/event
Coatings and paints, thin- ners, paint removers Wa-	Covers concentrations up to 1,5 %

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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
	for each use event Covers exposure up to 2,20 hours/event
Coatings and paints, thin- ners, paint removers Sol- vent 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 for each use event 2,20 hours/event
Coatings and paints, thin- ners, paint removers Aero- 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 ventilation.
	Covers use in room size of 34 m3
	for each use event Covers exposure up to 0,33 hours/event
Coatings and paints, thin- ners, paint removers Re- movers (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
	for each use event Covers exposure up to 2,00 hours/event
Fillers, Putties Fillers and 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
	for each use event Covers exposure up to 4,00 hours/event
Fillers, Putties Plasters and floor equalizers.	Covers concentrations up to 2 %

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	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
	for each use event 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 50 %
a miger premise	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 treat-	Covers concentrations up to 1,5 %
ment 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
	for each use event Covers exposure up to 2,20 hours/event
Non-metal-surface treat- ment 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
	for each use event Covers exposure up to 2,20 hours/event
Non-metal-surface treat- ment products Aerosol spray can.	Covers concentrations up to 50 %
υρ.ω <i>γ</i> υω	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-
	tion.
	Covers use in room size of 34 m3
Nice and all the state of the s	for each use event Covers exposure up to 0,33 hours/event
Non-metal-surface treat- ment products Removers	Covers concentrations up to 50 %

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(paint-, glue-, wall paper-,	
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
	for each use event 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
	for each use event Covers exposure up to 2,20 hours/event
Leather tanning, dye, finishing, impregnation and care products Polishes, wax / cream (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 56 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	for each use event Covers exposure up to 1,23 hours/event
Leather tanning, dye, finishing, impregnation and care products 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 56 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	for each use event Covers exposure up to 0,33 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
	Covers exposure up to 0,17 hours/event
Lubricants, greases, re-	Covers concentrations up to 20 %

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lease products Pastes.	
	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
	for each use event Covers exposure up to 4 hours/event
Lubricants, greases, re-	Covers concentrations up to 50 %
lease products Sprays.	тельный при се до
	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
	for each use event Covers exposure up to 0,17 hours/event
Polishes and wax blends	Covers concentrations up to 50 %
Polishes, wax / cream	'
(floor, furniture, shoes).	
	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
	for each use event Covers exposure up to 1,23 hours/event
Polishes and wax blends 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
	for each use event 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 365 day/year Covers use up to 1 times/day of use
	Covers use up to 1 times/day of use covers skin contact area up to (cm2): 857,50 cm2
	Covers use up to 1 times/day of use
	Covers use up to 1 times/day of use covers skin contact area up to (cm2): 857,50 cm2
	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

Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Amounts Used		

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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):	0,025
Maximum daily site tonnage (kg/day):	0,068
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 wide dispersive use (regional only):	0,99
Release fraction to wastewater from wide dispersive use:	0,01
Release fraction to soil from wide dispersive use (regional only):	5,0E-03
Conditions and Measures related to municipal sewage treatment p	lant
Risk from environmental exposure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage	96,4
treatment (%)	
Maximum allowable site tonnage (MSafe) based on release following	92
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste fo	r disposal
External treatment and disposal of waste should comply with applicable al regulations.	local and/or region-

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 consumer 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.	

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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.