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

1.1 Product identifier

Trade name : SBP 80/95 LNH

Product code : Q5115

Registration number EU : 01-2119475514-35-0001

EC-No. : 921-024-6

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 : sccmso

Sheet

: sccmsds@shell.com

1.4 Emergency telephone number

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

week)

Poison Centre: (+41) 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 2 H225: Highly flammable liquid and vapour.

Aspiration hazard, Category 1 H304: May be fatal if swallowed and enters air-

ways.

Skin irritation, Category 2 H315: Causes skin irritation.

Specific target organ toxicity - single ex- H336: May cause drowsiness or dizziness.

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posure, Category 3, Narcotic effects

Long-term (chronic) aquatic hazard, Cat- H411: Toxic to aquatic life with long lasting effects.

egory 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :









Signal word : Danger

Hazard statements : PHYSICAL HAZARDS:

H225 Highly flammable liquid and vapour.

HEALTH HAZARDS:

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

ENVIRONMENTAL HAZARDS:

H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin dryness or

cracking.

Precautionary statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

Storage:

No precautionary phrases.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

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2.3 Other hazards

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

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

May form flammable/explosive vapour-air mixture.

This material is a static accumulator.

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

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cy-	Not Assigned 921-024-6	<= 100
clics, < 5% n-hexane		

Further information

Contains:

Identification number	Classification	Concentration (% w/w)
110-54-3, 203-777-	Flam. Liq.2; H225	<= 3
6	Skin Irrit.2; H315	
	Asp. Tox.1; H304	
	STOT RE2; H373	
	STOT SE3; H336	
	Repr.2; H361f	
	Aquatic Chronic2;	
	H411	
	110-54-3, 203-777-	110-54-3, 203-777- 6 Flam. Liq.2; H225 Skin Irrit.2; H315 Asp. Tox.1; H304 STOT RE2; H373 STOT SE3; H336 Repr.2; H361f Aquatic Chronic2;

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.

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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

rinsing.

If persistent irritation occurs, obtain medical attention.

If swallowed : Call emergency number for your location / facility.

If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

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

Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

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 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.

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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

A complex mixture of airborne solid and liquid particulates 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.

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

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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 bonding and grounding (earthing) all equipment.

Monitor area with combustible gas indicator.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

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

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.

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

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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.

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.

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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

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Aliphatic solvents 60 - 110, low n- hexane	Not As- signed	TWA	900 mg/m3	EU HSPA
n-Hexane	110-54-3	TWA	50 ppm 180 mg/m3	CH SUVA

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	easily absored stancial highe which are pos ty., National Ir	d through the skin, ca r risk compared to o sibly reprotoxic; the nstitute for Occupation	resorption possible; Substan an give by additional skin res nly inhalation by the airways. reprotoxicity affects the fertili anal Safety and Health, Harm he OEL-value is respected	option a sub- , Substances ty and sexuali-
n-Hexane		STEL	400 ppm	CH SUVA
			1.440 mg/m3	
	Further information: Toxic by skin resorption possible; Substances, which are easily absored through the skin, can give by additional skin resoption a substancial higher risk compared to only inhalation by the airways., Substances which are possibly reprotoxic; the reprotoxicity affects the fertility and sexuality., National Institute for Occupational Safety and Health, Harm to the unborn child is not to be expected when the OEL-value is respected			

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
n-Hexane	110-54-3	2,5-hexanedione plus 4,5-dihydroxy- 2-hexanone: 5 mg/l (Urine)	Immediately after exposure or after working hours	СН ВАТ

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons, C6- C7, n-alkanes, isoal- kanes, cyclics, < 5% n-hexane	Workers	Dermal	Long-term systemic effects	773 mg/kg
Hydrocarbons, C6- C7, n-alkanes, isoal- kanes, cyclics, < 5% n-hexane	Workers	Inhalation	Long-term systemic effects	2035 mg/m3
Hydrocarbons, C6- C7, n-alkanes, isoal- kanes, cyclics, < 5% n-hexane	Consumers	Dermal	Long-term systemic effects	699 mg/kg
Hydrocarbons, C6- C7, n-alkanes, isoal- kanes, cyclics, < 5% n-hexane	Consumers	Inhalation	Long-term systemic effects	608 mg/m3
Hydrocarbons, C6- C7, n-alkanes, isoal- kanes, cyclics, < 5% n-hexane	Consumers	Oral	Long-term systemic effects	699 mg/kg

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

Substance name		Environmental Compartment	Value
Hydrocarbons, C6-0	C7, n-alkanes,		
isoalkanes, cyclics,	< 5% n-		
hexane			
Remarks:	Substance	e is a hydrocarbon with a complex, unknown o	or variable composi-

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tion. Conventional methods of deriving PNECs are not appropriate and it is not possible to identify a single representative PNEC for such substances.

8.2 Exposure controls

Engineering measures

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

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include:

General Information

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

Define procedures for safe handling and maintenance of controls.

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

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

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

Retain drain downs in sealed storage pending disposal or 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: Nitrile rubber gloves. Incidental contact/Splash protection: PVC or

neoprene rubber gloves.

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

Skin and body protection

Wear chemical resistant gloves/gauntlets and boots. Where risk of splashing, also wear an apron.

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 concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

If air-filtering respirators are suitable for conditions of use: Select a filter suitable for organic gases and vapours [Type A

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

Thermal hazards : Not applicable

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : Liquid.

Colour : colourless

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Odour : Paraffinic

Odour Threshold : Data not available

Pour point : Data not available

Boiling point/boiling range : Typical 86 - 93 °C

Flammability

Flammability (liquids) : Static-accumulating flammable liquid.

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit /

Upper flammability limit

: 7,2 %(V)

Lower explosion limit /

Lower flammability limit

: 1 %(V)

Flash point : Typical -18 °C

Auto-ignition temperature : 275 °C

Method: DIN 51794

Decomposition temperature

Decomposition tempera-

ture

Data not available

pH : Not applicable

Viscosity

Viscosity, dynamic : Data not available

Viscosity, kinematic : Typical 0,7 mm2/s (25 °C)

Method: ASTM D445

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-

octanol/water

log Pow: 3,4 - 4,6

Vapour pressure : 4 kPa (0 °C)

8,5 kPa (20 °C)

28 kPa (50 °C)

Relative density : Data not available

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Density : Typical 715 kg/m3 (15 °C)

Method: ASTM D4052

Relative vapour density : No data available

Particle characteristics

Particle size : Data not available

9.2 Other information

Explosive properties : In use may form flammable/explosive vapour-air mixture.

Oxidizing properties : Not applicable

Flammability (liquids) : Static-accumulating flammable liquid.

Evaporation rate : 4,8

Method: ASTM D 3539, nBuAc=1

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Method: DIN 53170, di-ethyl ether=1

Conductivity : < 1 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-

conductive if its conductivity is below 10,000 pS/m., 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 : Data not available

Molecular weight : 96 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.

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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

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

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

Remarks: Low toxicity

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

Acute inhalation toxicity : LC50 (Rat): > 20 mg/l

Remarks: Low toxicity by inhalation.

Acute dermal toxicity : LD50 (Rat): > 2000 mg/kg

Remarks: Low toxicity

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

Skin corrosion/irritation

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : Causes skin irritation.

Repeated exposure may cause skin dryness or cracking.

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Serious eye damage/eye irritation

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : Not irritating to eye.

Respiratory or skin sensitisation

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : Not a sensitiser.

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

Germ cell mutagenicity

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Genotoxicity in vivo : Remarks: Not mutagenic.

Germ cell mutagenicity- As-

sessment

: This product does not meet the criteria for classification in

categories 1A/1B.

Carcinogenicity

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : Not a carcinogen.

Tumours produced in animals are not considered relevant to

humans.

Carcinogenicity - Assess-

ment

This product does not meet the criteria for classification in

categories 1A/1B.

Material	GHS/CLP Carcinogenicity Classification
Hydrocarbons, C6-C7, n- alkanes, isoalkanes, cyclics, < 5% n-hexane	No carcinogenicity classification.
n-Hexane	No carcinogenicity classification.

Reproductive toxicity

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

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Effects on fertility

Remarks: Not a developmental toxicant., Based on available data, the classification criteria are not met., Does not impair

fertility.

Reproductive toxicity - As-

sessment

This product does not meet the criteria for classification in

categories 1A/1B.

STOT - single exposure

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : May cause drowsiness and dizziness.

STOT - repeated exposure

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

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

sidered relevant to humans

Aspiration toxicity

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

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

levels of 0.1% or higher.

Further information

Product:

Remarks : Unless indicated otherwise, the data presented is representa-

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

ponent(s).

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Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Remarks : Exposure to very high concentrations of similar materials has

been associated with irregular heart rhythms and cardiac ar-

rest.

Remarks : Classifications by other authorities under varying regulatory

frameworks may exist.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Toxicity to fish : Remarks: LC/EC/IC50 > 10 - <= 100 mg/l

Harmful

Toxicity to daphnia and other :

aquatic invertebrates

Remarks: LC/EC/IC50 >1 - <=10 mg/l

Toxic

Toxicity to algae/aquatic plants : Remarks: LL/EL/IL50 > 10 <= 100 mg/l

Harmful

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-

ic toxicity)

Remarks: NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l

12.2 Persistence and degradability

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Biodegradability : Remarks: Readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

12.3 Bioaccumulative potential

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

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12.4 Mobility in soil

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

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

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

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

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

Components:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane:

Additional ecological infor-

mation

: 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 meth-

ods 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.

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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 na-

tional requirements and must be complied with.

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

Contaminated packaging

Drain container thoroughly.

After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture,

cut or weld uncleaned drums.

Send to drum recoverer or metal reclaimer.

Comply with any local recovery or waste disposal regulations.

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.

(NAPHTHA)

IATA : Petroleum distillates, n.o.s.

14.3 Transport hazard class(es)

ADR 3 **RID** 3 **IMDG** 3

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IATA : 3

14.4 Packing group

CDNI Inland Water Waste : NST 8963 Solvent

Agreement

ADR

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

RID

Packing group : II
Classification Code : F1
Hazard Identification Number : 33
Labels : 3

Remarks : SP640CD: Special provision 640D

IMDG

Packing group : II Labels : 3

IATA

Packing group : II Labels : 3

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

Remarks : Special Precautions: Refer to Section 7, Handling & Storage,

for special precautions which a user needs to be aware of or

needs to comply with in connection with transport.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 rules apply for bulk shipments by sea.

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 : Produc

(Annex XIV)

: Product is not subject to Authorisation under REACH.

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REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

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

Article 57).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

E2 ENVIRONMENTAL

HAZARDS

Waters Protection Ordinance (WPO 814.201)

Water pollution class : Swiss Class A, (www.tankportal.ch)

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 Stoerfallverordnung (StFV).

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

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

TSCA : Listed

AIIC : Listed

DSL : Listed

IECSC : Listed

ENCS : Listed

KECI : Listed

NZIoC : Listed

PICCS : Listed

TCSI : Listed

15.2 Chemical safety assessment

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

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SECTION 16: Other information

Full text of other abbreviations

CH BAT : Switzerland. List of BAT-values

CH SUVA : Switzerland. Limit values at the work place

EU HSPA : OEL based on European Hydrocarbon Solvents Producers

(CEFIC-HSPA) methodology.

CH SUVA / TWA : Time Weighted Average CH SUVA / STEL : Short Term Exposure Limit

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 Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail: SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet: SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Provide adequate information, instruction and training for 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 persis-

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tence, bioaccumulation and toxicity and hence is not considered 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.

Due to a change in detail in Section 15, this document has been released as a significant change.

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).

Classification of the mixture: Classification procedure:

Flam. Liq. 2	H225	On basis of test data.
Asp. Tox. 1	H304	Expert judgement and weight of evidence determination.
Skin Irrit. 2	H315	Expert judgement and weight of evidence determination.
STOT SE 3	H336	Expert judgement and weight of evidence determination.
Aquatic Chronic 2	H411	Expert judgement and weight of evidence determination.

Identified Uses according to the Use Descriptor System Uses - Worker

Title : Manufacture of substance

- Industrial

Uses - Worker

Title : Distribution of substance

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- Industrial

Uses - Worker

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

- Industrial

Uses - Worker

Title : Uses in Coatings

- Industrial

Uses - Worker

Title : Uses in Coatings

- Professional

Uses - Worker

Title : Use in Cleaning Agents

- Industrial

Uses - Worker

Title : Use in Cleaning Agents

- Professional

Uses - Worker

Title : Lubricants

- Industrial

Uses - Worker

Title : Lubricants

- Professional

Low Environmental Release

Uses - Worker

Title : Lubricants

- Professional

High Environmental Release

Uses - Worker

Title : Use as a fuel

- Professional

Uses - Worker

Title : Use as a fuel

Industrial

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Uses - Worker

Title : Use as binders and release agents

- Professional

Uses - Worker

Title : Use as binders and release agents

- Industrial

Uses - Worker

Title : Metal working fluids / rolling oils

- Professional

Uses - Worker

Title : Metal working fluids / rolling oils

- Industrial

Uses - Worker

Title : Functional Fluids

- Professional

Uses - Worker

Title : Functional Fluids

- Industrial

Uses - Worker

Title : Use in laboratories

- Professional

Uses - Worker

Title : Use in laboratories

- Industrial

Identified Uses according to the Use Descriptor System

Uses - Consumer

Title : Uses in Coatings

- Consumer

Uses - Consumer

Title : Use in Cleaning Agents

- Consumer

Uses - Consumer

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Title : Lubricants

- Consumer

Low Environmental Release

Uses - Consumer

Title : Lubricants

- Consumer

High Environmental Release

Uses - Consumer

Title : Use as a fuel

- Consumer

Uses - Consumer

Title : Functional Fluids

- Consumer

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

CH / EN

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Exposure Scenario - Worker

30000000881	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Manufacture of substance- Industrial
Use Descriptor	Sector of Use: SU 3, SU8, SU9 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 Environmental Release Categories: ERC1, ERC4, ESVOC SpERC 1.1.v1
Scope of process	Manufacture of the substance or use as an intermediate or process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container) and associated laboratory activities.

SECTION 2		PERATIONAL CONDITIONS AND RISK MANAGEMENT EASURES		
Section 2.1	Co	ontrol of Worker Exposure		
Product Characteristics				
Physical form of product	Liq	uid, vapour pressure 0.5 - 10 kPa at STP		
Concentration of the Sub-	Co	vers use of substance/product up to 100% (unless stated		
stance in Mixture/Article	diff	differently).,		
Frequency and Duration of	Use			
Covers daily exposures up to	8 ho	ours (unless stated differently).		
Other Operational Conditio	ns a	ffecting Exposure		
Assumes use at not more that	n 20	O°C above ambient temperature (unless stated differently).		
Assumes a good basic stand	ard c	of occupational hygiene is implemented.		
Contributing Scenarios	Ris	sk Management Measures		
General measures (skin irri-		Avoid direct skin contact with product. Identify potential ar		
		The state of the s		

	hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
General exposures (closed systems)PROC1PROC2PROC3	No other specific measures identified.
General exposures (open systems)PROC4	No other specific measures identified.
Process samplingPROC8b	No other specific measures identified.
Laboratory activitiesPROC15	No other specific measures identified.
Bulk transfers(open sys-	No other specific measures identified.

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tems)PROC8b		
Bulk transfers(closed sys-	No other specific measures identified	1
tems)PROC8b	No other specific measures identified	J.
Equipment cleaning and	No other specific measures identified	d.
maintenancePROC8a		
Storage.PROC1PROC2	Store substance within a closed syst	em.
Section 2.2	ontrol of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used in	region:	0,1
Regional use tonnage (tonnes/y		3,300
Fraction of Regional tonnage us		1
Annual site tonnage (tonnes/yea		3,300
Maximum daily site tonnage (kg,		33,000
Frequency and Duration of Us		
Continuous release.	•	
Emission Days (days/year):		100
Environmental factors not infl	uenced by risk management	100
Local freshwater dilution factor:	aonoca ay non management	10
Local marine water dilution factor	or:	100
	affecting Environmental Exposure	100
		5,0E-02
Release fraction to air from process (initial release prior to RMM): Release fraction to wastewater from process (initial release prior to		3,0E-04
RMM):		0,02 0 1
	cess (initial release prior to RMM):	1,0E-04
Technical conditions and mea	sures at process level (source) to pre	event release
Common practices vary across slease estimates used.	sites thus conservative process re-	
	nd measures to reduce or limit disch	arges air emis-
sions and releases to soil	in measures to reduce or innit disch	arges, air eims-
	re is driven by freshwater sediment.	
	d substance to or recover from onsite	
wastewater.	d substance to of recover from onsite	
No wastewater treatment require	ed.	
Treat air emission to provide a t	pical removal efficiency of (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide		0
the required removal efficiency of		
If discharging to domestic seway	ge treatment plant, no secondary	0
wastewater treatment required.	•	
Organisational measures to p	revent/limit release from site	
Do not apply industrial sludge to	natural soils.	
Sludge should be incinerated, co	ontained or reclaimed.	
Conditions and Measures rela	ted to municipal sewage treatment p	lant
	om wastewater via domestic sewage	96
treatment (%)		
	wastewater after onsite and offsite	96
(domestic treatment plant) RMM		

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Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	1,6E+06	
Assumed domestic sewage treatment plant flow (m3/d)	1,0E+04	
Conditions and Measures related to external treatment of waste for disposal		
During manufacturing no waste of the substance is generated.		
Conditions and measures related to external recovery of waste		
During manufacturing no waste of the substance is generated.		

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

Section 3.2 - Environment

SECTION 4

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

E	XPOSURE SCENARIO
Section 4.1 - Health	
Measures/Operational Condition Available hazard data do not ena Risk Management Measures are Where other Risk Management I	ected to exceed the DN(M)EL when the Risk Management s outlined in Section 2 are implemented. able the derivation of a DNEL for dermal irritant effects. based on qualitative risk characterisation. Measures/Operational Conditions are adopted, then users naged to at least equivalent levels.

GUIDANCE TO CHECK COMPLIANCE WITH THE

Section 4.2 - Environment

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

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

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

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

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Exposure Scenario - Worker

30000000882	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Distribution of substance- Industrial
Use Descriptor	Sector of Use: SU 3, SU8, SU9 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 15 Environmental Release Categories: ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC 6C, ERC 6D, ERC7, ESVOC SpERC 1.1b.v1
Scope of process	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at S	STP
Concentration of the Sub-	Covers use of substance/product up to 100% (unless stated	
stance in Mixture/Article	differently).,	
Frequency and Duration of Use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other Operational Conditions affecting Exposure		
Assumes use at not more than 20°C above ambient temperature (unless stated differently).		
Assumes a good basic standard of occupational hygiene is implemented.		
Contributing Scenarios Risk Management Measures		

Contributing Scenarios	Risk Management Measures
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.
General exposures (closed systems)PROC1PROC2PROC	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 sys-	No other specific measures identified.

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() DD 0 0 0 1		
tems)PROC8b	A	
Bulk transfers(open sys-	No other specific measures identified	d.
tems)PROC8b	N	1
Drum and small package fill-	No other specific measures identified	d.
ingPROC9	No other conditions of the CC	1
Equipment cleaning and maintenancePROC8a	No other specific measures identified	J.
Storage.PROC1PROC2	Ctore substance within a closed sust	2000
Storage.FROCTFROC2	Store substance within a closed syst	em.
Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		,
Fraction of EU tonnage used	in region:	0,1
Regional use tonnage (tonnes		10
Fraction of Regional tonnage		0,002
Annual site tonnage (tonnes/y		0,02
Maximum daily site tonnage (1
Frequency and Duration of		•
Continuous release.		
Emission Days (days/year):		20
	nfluenced by risk management	•
Local freshwater dilution factor		10
Local marine water dilution fa	ctor:	100
Other Operational Condition	ns affecting Environmental Exposure	
	ocess (initial release prior to RMM):	1E-03
Release fraction to wastewater from process (initial release prior to 1E-05		1E-05
RMM):		
	process (initial release prior to RMM):	1E-05
	easures at process level (source) to pr	event release
	s sites thus conservative process re-	
lease estimates used.		<u> </u>
	and measures to reduce or limit disch	arges, air emis-
sions and releases to soil	and is deliced by facebooks	
Risk from environmental expo	· ·	
No wastewater treatment require		00
	a typical removal efficiency of (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)		0
	•	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.		
	prevent/limit release from site	
Do not apply industrial sludge		
Sludge should be incinerated.		
Clauge official 20 monteration	contained of residinged.	
Conditions and Measures re	elated to municipal sewage treatment p	lant
	from wastewater via domestic sewage	96
treatment (%)		
	m wastewater after onsite and offsite	96
(domestic treatment plant) RN	/IMs (%)	

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Maximum allowable site tonnage (MSafe) based on release following	6,0E+04
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d)	2,3E+03

Conditions and Measures related to external treatment of waste for disposal

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

Conditions and measures related to external recovery of waste

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

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

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
Occident A.A. Illerial	

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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

Section 4.2 - Environment

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

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

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

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

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Exposure Scenario - Worker

30000000883	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Formulation & (re)packing of substances and mixtures- Industrial
Use Descriptor	Sector of Use: SU 3, SU 10 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15 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	f Use	
Covers daily exposures up to 8 hours (unless stated differently).		
Other Operational Condition	ons affecting Exposure	
	an 20°C above ambient temperature (unless stated differently). dard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures	
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential area for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.	
General exposures (closed systems)PROC1PROC2PRO	No other specific measures identified.	
General exposures (open systems)PROC4	- No other specific measures identified.	
Batch processes at elevated temperaturesOperation is car ried out at elevated temperatures (> 20°C above ambient temperatures)	ıre	

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	T
ature).PROC3	
Process samplingPROC3	No other specific measures identified.
Laboratory activitiesPROC15	No other specific measures identified.
Bulk transfersPROC8b	No other specific measures identified.
Mixing operations (open systems)PROC5	No other specific measures identified.
ManualTransfer from/pouring from containersNon-dedicated facilityPROC8a	No other specific measures identified.
Drum/batch transfersDedicated facilityPROC8b	No other specific measures identified.
Production or preparation or articles by tabletting, compression, extrusion or pelletisationPROC14	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.

Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used in region:		0,1
Regional use tonnage (tonne		61
Fraction of Regional tonnage		1
Annual site tonnage (tonnes/year):		61
Maximum daily site tonnage (6,1E+03
Frequency and Duration of	Use	
Continuous release.		
Emission Days (days/year):		10
	nfluenced by risk management	
Local freshwater dilution factor:		10
Local marine water dilution factor:		100
	ns affecting Environmental Exposure	
	ocess (initial release prior to RMM):	0,025
Release fraction to wastewate RMM):	er from process (initial release prior to	0,0002
Release fraction to soil from process (initial release prior to RMM):		0,0001
	easures at process level (source) to p	revent release
	ss sites thus conservative process re-	
lease estimates used.		
	and measures to reduce or limit disc	harges, air emis-
sions and releases to soil		
Risk from environmental expo	sure is driven by freshwater sediment.	

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Prevent discharge of undissolved substance to or recover from onsite		
wastewater.		
No wastewater treatment required.		
Treat air emission to provide a typical removal efficiency of (%)	0	
Treat onsite wastewater (prior to receiving water discharge) to provide	0	
the required removal efficiency of >= (%)		
If discharging to domestic sewage treatment plant, no secondary	0	
wastewater treatment required.		
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	
treatment (%)		
Total efficiency of removal from wastewater after onsite and offsite	96	
(domestic treatment plant) RMMs (%)		
Maximum allowable site tonnage (MSafe) based on release following	4,9E+05	
total wastewater treatment removal (kg/d)		
Assumed domestic sewage treatment plant flow (m3/d)	2,0E+03	
Conditions and Measures related to external treatment of waste for		
External treatment and disposal of waste should comply with applicable	local and/or regional	
regulations.		
Conditions and measures related to external recovery of waste		
External recovery and recycling of waste should comply with applicable local and/or regional		
regulations.		

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

indicated.

Section 3.2 - Environment

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

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE
	EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management	
Measures/Operational Conditions outlined in Section 2 are implemented.	
Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.	
Risk Management Measures are based on qualitative risk characterisation.	
1	the state of the s

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.

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

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

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

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SECTION 2

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Exposure Scenario - Worker

30000000884	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Uses in Coatings- Industrial
Use Descriptor	Sector of Use: SU 3 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 14, PROC 15 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.

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 Conditio	ns 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 measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 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.	
General exposures (closed systems)PROC1	No other specific measures identified.	
General exposures (closed	No other specific measures identified.	

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systems)with sample col-		
lectionUse in contained		
systemsPROC2		
Film formation - force dry-	No other specific measures identified.	
ing, stoving and other tech-	140 other specific measures identified.	
nologies.(closed sys-		
tems)Operation is carried		
out at elevated temperature		
(> 20°C above ambient		
temperature).PROC2		
Mixing operations (closed	No other specific measures identified.	
systems)Use in contained	The other specific measures lacitation.	
batch processesPROC3	A1 (1 (10) 1	
Film formation - air dry-	No other specific measures identified.	
ingPROC4		
Preparation of material for	No other specific measures identified.	
applicationMixing opera-	·	
tions (open sys-		
tems)PROC5		
Spraying (automat-	No other specific measures identified.	
	No other specific measures identified.	
ic/robotic)PROC7		
ManualSprayingPROC7	No other specific measures identified.	
Material transfersNon-	No other specific measures identified.	
dedicated facilityPROC8a	•	
Material transfersDedicated	No other specific measures identified.	
facilityPROC8b		
Roller, spreader, flow appli-	No other specific measures identified.	
cationPROC10	No other specific measures identified.	
	No other constitution of the stiffe of	
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		
	No appoific massures identified	
Production or preparation	No specific measures identified.	
or articles by tabletting,		
compression, extrusion or		
pelletisationPROC14		
Equipment cleaning and	No other specific measures identified.	
maintenancePROC8a	·	
Storage.PROC1	Store substance within a closed system.	
	The state of the s	
Section 2.2	Control of Environmental Exposure	
	·	
Substance is complex UVCB		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used	in region:	0,1
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

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	1
Regional use tonnage (tonnes/year):	540
Fraction of Regional tonnage used locally:	1
Annual site tonnage (tonnes/year):	540
Maximum daily site tonnage (kg/day):	2,7E+04
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):	0,98
Release fraction to wastewater from process (initial release prior to RMM):	7,0E-04
Release fraction to soil from process (initial release prior to RMM):	0
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 disch	arges, air emis-
sions and releases to soil	3 - 1,
Risk from environmental exposure is driven by freshwater sediment.	
Prevent discharge of undissolved substance to or recover from onsite	
wastewater.	
If discharging to domestic sewage treatment plant, no secondary	
wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	90
Treat onsite wastewater (prior to receiving water discharge) to provide	79,4
the required removal efficiency of >= (%)	
If discharging to domestic sewage treatment plant, no secondary	0
wastewater treatment required.	
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
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	1,4E+05
total wastewater treatment removal (kg/d)	.,
Assumed domestic sewage treatment plant flow (m3/d)	2,0E+03
Conditions and Measures related to external treatment of waste for	1
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	local and/or regional
regulations.	iocai anu/or regional

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Section 3.1 - Health

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

Section 3.2 - Environment

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

SECTION 4 GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO

Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

30000000885	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Uses in Coatings- Professional
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13, PROC 15, PROC 19 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 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 Substance in Mixture/Article	Covers use of substance/product up to 100% (unless stated differently).,	
Frequency and Duration of Use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other Operational Conditions affecting Exposure		
Assumes use at not more than 20°C above ambient temperature (unless stated differently).		

Assumes 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 measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 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.
General exposures (closed systems)PROC1	No other specific measures identified.
Filling/ preparation of equip-	No other specific measures identified.

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ment from drums or contain- ers.Use in contained sys- temsPROC2	
General exposures.Use in contained systemsPROC2	No other specific measures identified.
Preparation of material for applicationPROC3	No other specific measures identified.
Film formation - air dry- ingPROC4	No other specific measures identified.
Preparation of material for applicationPROC5	No other specific measures identified.
Material transfersDrum/batch transfersNon-dedicated facilityPROC8a	No other specific measures identified.
Material transfersDrum/batch transfersDedicated facilityPROC8b	No other specific measures identified.
Roller, spreader, flow applicationPROC10	No other specific measures identified.
ManualSprayingIndoorPROC11	No other specific measures identified.
Dipping, immersion and pouringPROC13	No other specific measures identified.
Laboratory activitiesPROC15	No other specific measures identified.
Hand application - fingerpaints, pastels, adhesivesPROC19	No other specific measures identified.
Storage.PROC1	Store substance within a closed system.

Section 2.2	Control of Environmental Exposur	·e	
Substance is complex UVCB.			
Predominantly hydrophobic.			
Readily biodegradable.	Readily biodegradable.		
Amounts Used			
Fraction of EU tonnage used	in region:	0,1	
Regional use tonnage (tonnes	s/year):	90	
Fraction of Regional tonnage	used locally:	5,0E-04	
Annual site tonnage (tonnes/)	vear):	4,5E-02	
Maximum daily site tonnage (kg/day):		1,2E-01	
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):		0,98	
Release fraction to wastewater from wide dispersive use:		0,01	
Release fraction to soil from wide dispersive use (regional only): 0,		0,01	
Technical conditions and measures at process level (source) to prevent release		o prevent release	
Common practices vary acros	ss sites thus conservative process re-		

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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, no secondary	0
wastewater treatment required.	
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
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	4,0E+03
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d) 2,0E+0	
Conditions and Measures related to external treatment of waste fo	•
External treatment and disposal of waste should comply with applicable	local and/or regional
regulations.	
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable	local and/or regional
regulations.	

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

Section 3.2 - Environment

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

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Measures/Operational Condit Available hazard data do not Risk Management Measures Where other Risk Manageme	expected to exceed the DN(M)EL when the Risk Management ions outlined in Section 2 are implemented. enable the derivation of a DNEL for dermal irritant effects. are based on qualitative risk characterisation. ent Measures/Operational Conditions are adopted, then users 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.

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 Ocentario - Worker		
30000000886		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Use in Cleaning Agents- Industrial	
Use Descriptor	Sector of Use: SU 3	
	Process Categories: PROC 1, PROC 2, PROC 3, PROC 4,	
	PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13	
	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 MANAGEMENT MEASURES	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at S	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 (unles	s stated differently).
Assumes a good basis standard of assumptional busines is implemented		

Assumes a good basic standard of occupational hygiene is implemented.

Contributing Scenarios	Risk Management Measures	
General measures (skin irritar	Avoid direct skin contact with product. Identify potential are as for indirect skin contact. Wear gloves (tested to EN374 if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 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.	4) - m-
Bulk transfersPROC8a	No other specific measures identified.	
Automated process with (sem closed systems. Use in contain	· ·	

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systemsPROC2		
Automated process with (semi)	No other specific measures identif	ied.
closed systems.Drum/batch trans-		
fersPROC3		
Application of cleaning products in closed systemsPROC2	No other specific measures identif	ied.
Filling/ preparation of equipment	No other specific measures identif	ied.
from drums or contain-		
ers.PROC8b		
Use in contained batch process- esPROC4	No other specific measures identif	
Degreasing small objects in cleaning stationPROC13	No other specific measures identif	ied.
Cleaning with low-pressure washersPROC10	No other specific measures identif	ied.
Cleaning with high pressure washersPROC7	No other specific measures identif	ied.
ManualSurfacesCleaningPROC10	No other specific measures identif	ied.
Storage.PROC1	Store substance within a closed sy	vstem.
Section 2.2 Con	trol of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used in reg	ion:	0,1
Regional use tonnage (tonnes/year		280
Fraction of Regional tonnage used		0,36
Annual site tonnage (tonnes/year):	locally.	100
Maximum daily site tonnage (kg/day	v)·	5,000
Frequency and Duration of Use	y).	3,000
Continuous release.		
Emission Days (days/year):		20
Environmental factors not influen	acad by rick management	120
Local freshwater dilution factor:	iced by risk management	10
Local freshwater dilution factor: Local marine water dilution factor:		100
	acting Environmental Evacure	100
Other Operational Conditions aff		110
Release fraction to air from process	,	1,0
Release fraction to wastewater from RMM):		3E-06
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	ineasures to reduce or infinit discri	arges, air eims-
Risk from environmental exposure	is driven by soil	
Prevent discharge of undissolved substance to or recover from onsite		
wastewater.		
No wastewater treatment required.		
1.15 Habiomator troatmont roquired.		

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Treat air emission to provide a typical 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, no secondary	0,0	
wastewater treatment required.		
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	
treatment (%)		
Total efficiency of removal from wastewater after onsite and offsite	96	
(domestic treatment plant) RMMs (%)		
Maximum allowable site tonnage (MSafe) based on release following	6,1E+06	
total wastewater treatment removal (kg/d)		
Assumed domestic sewage treatment plant flow (m3/d)	2,0E+03	
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.		
Conditions and measures related to external recovery of waste		
External recovery and recycling of waste should comply with applicable local and/or regional		
regulations.	-	

SECTION 3	EXPOSURE ESTIMATION

Section 3.1 - Health

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

Section 3.2 - Environment

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

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE
	EXPOSURE SCENARIO

Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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 - Worker

30000000887		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Use in Cleaning Agents- Professional	
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 13 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		
SECTION 2	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 use of substance/product up to 100% (unless stated		
stance in Mixture/Article	differently).,		
Frequency and Duration of	Use		
Covers daily exposures up to	o 8 hours (unless stated differently).		
Other Operational Condition	ons affecting Exposure		
	an 20°C above ambient temperature (unless stated differently). dard of occupational hygiene is implemented.		
Contributing Scenarios	Risk Management Measures		
General measures (skin irrita	Avoid direct skin contact with product. Identify potential are as for indirect skin contact. Wear gloves (tested to EN374 if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contan ination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin prob-		

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dedicated facilityPROC8a	
Automated process with (semi) closed systems. Use in contained systems PROC2	No other specific measures identified.
Automated process with (semi) closed systems.Drum/batch transfersUse in contained systemsPROC3	No other specific measures identified.
Semi Automated process. (e.g.: Semi automatic application of floor care and maintenance prod- ucts)PROC4	No other specific measures identified.
ManualSurfacesCleaningDipping, immersion and pouringPROC13	No other specific measures identified.
Cleaning with low-pressure washersRolling, Brushingno sprayingPROC10	No other specific measures identified.
Cleaning with high pressure washersSprayingPROC11	Provide a good standard of general or controlled ventilation (5 to 15 air changes per hour).
ManualSurfacesCleaningPROC10	No other specific measures identified.
Ad hoc manual application via trigger sprays, dipping, etc.Rolling, BrushingPROC10	No other specific measures identified.
Application of cleaning products in closed systemsPROC4	No other specific measures identified.
Cleaning of medical devicesPROC4	No other specific measures identified.
Storage.PROC1	Store substance within a closed system.

Section 2.2 Control of Environmental Exposure			
Substance is complex UVCB.			
Predominantly hydrophobic.	Predominantly hydrophobic.		
Readily biodegradable.			
Amounts Used			
Fraction of EU tonnage used	in region:	0,1	
Regional use tonnage (tonnes	s/year):	300	
Fraction of Regional tonnage	used locally:	5,0E-04	
Annual site tonnage (tonnes/y		0,15	
Maximum daily site tonnage (kg/day):		0,42	
Frequency and Duration of Use			
Continuous release.			
Emission Days (days/year):		365	
Environmental factors not influenced by risk management			
Local freshwater dilution factor	or:	10	
Local marine water dilution factor:		100	
Other Operational Conditions affecting Environmental Exposure			
Release fraction to air from w	ide dispersive use (regional only):	0,02	
Release fraction to wastewate	er from wide dispersive use:	1E-06	
Release fraction to soil from wide dispersive use (regional only): 0		0	

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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 discha-	arges, air emis-
sions and releases to soil	g
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 >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	U
Organisational measures to prevent/limit release from site	I
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
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	2,1E+04
total wastewater treatment removal (kg/d)	
Assumed domestic sewage treatment plant flow (m3/d)	2,0E+03
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.	
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable	local and/or regional
regulations.	
·	

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

Section 3.2 - Environment

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

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
	EXPOSURE SCENARIO
Section 4.1 - Health	
Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management	
Measures/Operational Condi	tions outlined in Section 2 are implemented.
Available hazard data do not	enable the derivation of a DNEL for dermal irritant effects.
Risk Management Measures	are based on qualitative risk characterisation.

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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

Exposure occitatio - Work	
30000000888	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants- Industrial
Use Descriptor	Sector of Use: SU 3
-	Process Categories: PROC 1, PROC 2, PROC 3, PROC 4,
	PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC
	13, PROC 17, PROC 18
	Environmental Release Categories: ERC4, ERC7, ESVOC
	SpERC 4.6a.v1
	SPERIO HOSAIT
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 use of substance/product up to 100% (unless stated differently).,
Frequency and Duration of	Use
Covers daily exposures up to	o 8 hours (unless stated differently).
Other Operational Condition	ons 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 I	Risk Management Measures	
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential area for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. Other skin protection measures such as impervious suits an face shields may be required during high dispersion activities which are likely to lead to substantial aerosol release, e.g. spraying.	i-
General exposures (closed systems)PROC1PROC2PROC	No other specific measures identified. 3	
General exposures (open systems)PROC4	No other specific measures identified.	
Bulk transfersPROC8b	No other specific measures identified.	

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Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.Dedicated facilityPROC8b	No other specific measures identified.
Initial factory fill of equip- mentPROC9	No other specific measures identified.
Operation and lubrication of high energy open equipmentPROC17PROC18	No other specific measures identified.
ManualRolling, Brush- ingPROC10	No other specific measures identified.
Treatment by dipping and pour-ingPROC13	No other specific measures identified.
SprayingPROC7	No other specific measures identified.
Maintenance (of larger plant items) and machine set up-PROC8b	No other specific measures identified.
Maintenance (of larger plant items) and machine set upOperation is carried out at elevated temperature (> 20°C above ambient temperature).PROC8b	No other specific measures identified.
Maintenance of small itemsPROC8a	No other specific measures identified.
Remanufacture of reject articlesPROC9	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used	in region:	0,1
Regional use tonnage (tonnes	s/year):	10
Fraction of Regional tonnage	used locally:	1
Annual site tonnage (tonnes/year): 10		10
Maximum daily site tonnage (kg/day): 500		500
Frequency and Duration of Use		
Continuous release.		
Emission Days (days/year): 20		20
Environmental factors not influenced by risk management		
Local freshwater dilution factor: 10		
Local marine water dilution factor: 100		100
Other Operational Conditions affecting Environmental Exposure		
Release fraction to air from pr	rocess (initial release prior to RMM):	0,01
Release fraction to wastewater from process (initial release prior to 3E-05		3E-05

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RMM):	0.004
Release fraction to soil from process (initial release prior to RMM):	0,001
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 sions and releases to soil	arges, air emis-
Risk from environmental exposure is driven by freshwater sediment.	
Prevent discharge of undissolved substance to or recover from onsite wastewater.	
No wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	70
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	0
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
Organisational measures to prevent/limit release from site	1
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
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	3,3E+06
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	local and/or regions
External recovery and recycling of waste should comply with applicable regulations.	ilocal and/or regiona

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

Section 3.2 - Environment

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

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	

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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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

30000000906	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants- ProfessionalLow Environmental Release
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17, PROC 18, PROC 20 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 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 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 measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 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.
General exposures (closed systems)PROC1PROC2PROC	No other specific measures identified.
Operation of equipment containing engine oils and similar.PROC20	in- No other specific measures identified.

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Section 2.2	Control of Environmental Exposure
Storage.PROC1PROC2	Store substance within a closed system.
Treatment by dipping and pouingPROC13	·
SprayingPROC11	No other specific measures identified.
ManualRolling, Brush- ingPROC10	No other specific measures identified.
Engine lubricant servicePROC	No other specific measures identified.
eration is carried out at elevat temperature (> 20°C above ambient temperature).Non- dedicated facilityPROC8a	
Maintenance of small itemsOp	No other specific measures identified.
items) and machine set upOp eration is carried out at elevat temperature (> 20°C above ambient tempera- ture).Dedicated facilityPROC8	ed
Maintenance (of larger plant items) and machine set up-PROC8b Maintenance (of larger plant	No other specific measures identified. No other specific measures identified.
Operation and lubrication of high energy open equipmentOutdoorPROC17	No other specific measures identified.
Operation and lubrication of high energy open equipmently doorPROC17	
Filling/ preparation of equipme from drums or containers.Non dedicated facilityPROC8a	- ·
Filling/ preparation of equipme from drums or containers. Dedicated facility PROC8b	
Bulk transfersPROC8b	No other specific measures identified.
General exposures (open systems)PROC4	No other specific measures identified.

Section 2.2	Control of Environmental Expos	sure		
Substance is complex UVCB.	Substance is complex UVCB.			
Predominantly hydrophobic.				
Readily biodegradable.				
Amounts Used	Amounts Used			
Fraction of EU tonnage used in region:		0,1		
Regional use tonnage (tonnes/year):		5		
Fraction of Regional tonnage	used locally:	0,0005		
Annual site tonnage (tonnes/y	vear):	0,0025		
Maximum daily site tonnage (kg/day):		0,0068		
Frequency and Duration of Use				

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Continuous release.				
	365			
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	100			
	0.04			
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 and releases to sail	arges, air emis-			
sions and releases to soil	1			
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, no secondary	0			
wastewater treatment required.				
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			
treatment (%)				
Total efficiency of removal from wastewater after onsite and offsite	96			
(domestic treatment plant) RMMs (%)				
Maximum allowable site tonnage (MSafe) based on release following	3,4E+02			
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 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

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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

General exposures (closed sys-

engine oils and similar.PROC20 General exposures (open sys-

tems)PROC1PROC2PROC3
Operation of equipment containing

30000000907	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants- ProfessionalHigh Environmental Release
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17, PROC 18, PROC 20, PROC 21 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	Contr	ol of Worker Exposure	
Product Characteristics			
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at STP		
Concentration of the Sub-	Covers use of substance/product up to 100% (unless stated		
stance in Mixture/Article		ently).,	,
Frequency and Duration of	Use	•	
Covers daily exposures up to	8 hours	s (unless stated differently).	
Other Operational Conditio	ns affe	cting Exposure	
Assumes use at not more that	n 20°C	above ambient temperature (unles	ss stated differently).
Assumes a good basic standa	ard of o	ccupational hygiene is implemente	ed.
-			
Contributing Scenarios	Risk I	Management Measures	
General measures (skin irritants).		Avoid direct skin contact with pro- areas for indirect skin contact. W EN374) if hand contact with subs- contamination/spills as soon as the skin contamination immediately. It training to prevent / minimise exp- skin problems that may develop. Other skin protection measures seand face shields may be required activities which are likely to lead to	ear gloves (tested to tance likely. Clean up ney occur. Wash off any Provide basic employee osures and to report any uch as impervious suits during high dispersion

No other specific measures identified.

No other specific measures identified.

No other specific measures identified.

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tems)PROC4	
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 equipmentIn-doorPROC17PROC18	No other specific measures identified.
Operation and lubrication of high energy open equipmentOut-doorPROC17	No other specific measures identified.
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	No other specific measures identified.
Treatment by dipping and pouringPROC13	No other specific measures identified.
Storage.PROC1PROC2	Store substance within a closed system.

Section 2.2	Control of Environmental Expos	ure
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used	in region:	0,1
Regional use tonnage (tonnes/year):		5
Fraction of Regional tonnage	used locally:	0,0005
Annual site tonnage (tonnes/		0,0025
Maximum daily site tonnage (kg/day):		0,0068
Frequency and Duration of Use		
Continuous release.		
Emission Days (days/year):		365

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

SBP 80/95 LNH

Version Revision Date: SDS Number: Date of last issue: 31.10.2024

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Local freshwater dilution factor: 100 Other Operational Conditions affecting Environmental Exposure Release fraction to air from wide dispersive use (regional only): 0,6 Release fraction to wastewater from wide dispersive use: 0,05 Release fraction to soil 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 prevent release Common practices vary across sites thus conservative process release estimates used. Technical 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. Treat air emission to provide a typical removal efficiency of (%) Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. 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 treatment (%) Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following 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 region regulations.	Environmental factors not influenced by risk management	
Release fraction to air from wide dispersive use (regional only): 0,6	Local freshwater dilution factor:	10
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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 region	total wastewater treatment removal (kg/d)	
External treatment and disposal of waste should comply with applicable local and/or region	Assumed domestic sewage treatment plant flow (m3/d)	2.000
	Conditions and Measures related to external treatment of waste for	r disposal
		local and/or regiona
rogulations.	regulations.	
Conditions and measures related to external recovery of waste	Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable local and/or regio		local and/or regions
regulations.		iocai aliu/oi regiona
Togulations.	Togalations.	

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

indicated.

Section 3.2 - Environment

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

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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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

30000000914	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as a fuel- Professional
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16 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 use of substance/product up to 100% (unless stated differently).,	
Frequency and Duration of	Use	
Covers daily exposures up to	o 8 hours (unless stated differently).	
Other Operational Condition	ons affecting Exposure	
	an 20°C above ambient temperature (unless stated differently). lard of occupational hygiene is implemented.	

Contributing Scenarios	Risk Management Measures	
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential area for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.	i-
Bulk transfersDedicated facilityPROC8b	No other specific measures identified.	
Drum/batch transfersDedicated facilityPROC8b	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	No other specific measures identified.	

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Section 2.2 Control of Environmental Exposure Substance is complex UVCB. Predominantly hydrophobic. Readily biodegradable. Amounts Used Fraction of EU tonnage used in region: Regional use tonnage (tonnes/year): Fraction of Regional tonnage used locally: Annual site tonnage (tonnes/year): Maximum daily site tonnage (kg/day): Continuous release. Emission Days (days/year): Servironmental factors not influenced by risk management Local freshwater dilution factor: Local marine water dilution factor: 10 Other Operational Conditions affecting Environmental Exposure Release fraction to air from wide dispersive use (regional only): Release fraction to soil from wide dispersive use (regional only): Release fraction to soil from wide dispersive use (regional only): Technical conditions and measures at process level (source) to prevent release Common practices vary across sites thus conservative process release estimates used. Technical 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. Treat air emission to provide a typical removal efficiency of (%) Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) If discharging to domestic sewage treatment plant, no secondary wastewater treatment required. 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 treatment (%) Total 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) 2.000	maintenancePROC8a		
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Estimated substance removal from wastewater via domestic sewage treatment (%) Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) 2.000	Sludge should be incinerated	elated to municipal sewage treatment p	lant
treatment (%) Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) 2.000			
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following 3,5E+02 total wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) 2.000	Conditions and Measures r		1 5 5
(domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following 3,5E+02 total wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) 2.000	Conditions and Measures r Estimated substance remova		
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) 2.000	Conditions and Measures r Estimated substance remova treatment (%)	al from wastewater via domestic sewage	96
total wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) 2.000	Conditions and Measures r Estimated substance remova treatment (%) Total efficiency of removal fro	al from wastewater via domestic sewage om wastewater after onsite and offsite	96
Assumed domestic sewage treatment plant flow (m3/d) 2.000	Conditions and Measures r Estimated substance remova treatment (%) Total efficiency of removal fro (domestic treatment plant) RI	of the state of th	
	Conditions and Measures r Estimated substance remova treatment (%) Total efficiency of removal fro (domestic treatment plant) RI Maximum allowable site tonn	al from wastewater via domestic sewage om wastewater after onsite and offsite MMs (%) age (MSafe) based on release following	
Conditions and Measures related to external treatment of waste for disposal	Conditions and Measures restimated substance removal treatment (%) Total efficiency of removal fro (domestic treatment plant) RI Maximum allowable site tonn total wastewater treatment restreatment restreatment restreatment	on wastewater via domestic sewage om wastewater after onsite and offsite MMs (%) age (MSafe) based on release following emoval (kg/d)	3,5E+02

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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 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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

30000000913	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as a fuel- Industrial
Use Descriptor	Sector of Use: SU 3 Process Categories: PROC 1, PROC 2, PROC 3, PROC 8a, PROC 8b, PROC 16 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 use of substance/product up to 100% (unless stated differently).,	
Frequency and Duration of	Use	
Covers daily exposures up to	8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure		
	an 20°C above ambient temperature (unless stated differently lard of occupational hygiene is implemented.	·).

Contributing Scenarios	Risk Management Measures	
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential area for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.	i-
Bulk transfersDedicated facilityPROC8b	No other specific measures identified.	
Drum/batch transfersDedicated facilityPROC8b	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.PROC1PROC2	Store substance within a closed system.	

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Section 2.2	Control of Environmental Exposure	
Substance is complex UVCI	•	
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used	12	104
Fraction of EU tonnage use		0,1
Regional use tonnage (tonn	, ,	5
Fraction of Regional tonnag	·	1
Annual site tonnage (tonnes		5
Maximum daily site tonnage		250
Frequency and Duration o	f Use	<u> </u>
Continuous release.		
Emission Days (days/year):		20
	influenced by risk management	
Local freshwater dilution fac		10
Local marine water dilution t		100
	ons affecting Environmental Exposure	
Release fraction to air from	process (initial release prior to RMM):	0,05
Release fraction to wastewa	ter from process (initial release prior to	1E-05
RMM):		
	process (initial release prior to RMM):	0
Technical conditions and	measures at process level (source) to pr	revent release
Common practices vary acre	oss sites thus conservative process re-	
lease estimates used.		
sions and releases to soil	ns and measures to reduce or limit disch	arges, air emis-
	posure is driven by freshwater sediment.	
No wastewater treatment re		
	e a typical removal efficiency of (%)	95
	or to receiving water discharge) to provide	0
the required removal efficier		
	ewage treatment plant, no secondary	0
wastewater treatment requir		
	to prevent/limit release from site	
Do not apply industrial sludg		
Sludge should be incinerate	d, contained or reclaimed.	
	related to municipal sewage treatment p	
Estimated substance remov treatment (%)	al from wastewater via domestic sewage	96
Total efficiency of removal for	rom wastewater after onsite and offsite	96
(domestic treatment plant) F		
, ,	nage (MSafe) based on release following	9,8E+06
total wastewater treatment r		
Assumed domestic sewage	, 9	2.000
	related to external treatment of waste fo	
Combustion emissions limite	ed by required exhaust emission controls. is considered in regional exposure assessm	-
	related to external recovery of waste	ient.

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This substance is consumed during use and no waste of substance is generated.

SECTION 3 EXPOSURE ESTIMATION

Section 3.1 - Health

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

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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

30000000911	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as binders and release agents- Professional
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 6, PROC 8a, PROC 8b, PROC 10, PROC 11, PROC 14 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.10b.v1
Scope of process	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 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 o	f 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.		

Contributing Scenarios R	tisk Management Measures
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 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.
Bulk transfersUse in contained systemsPROC1PROC2PROC3	No other specific measures identified.
Drum/batch transfer- sPROC8aPROC8b	No other specific measures identified.
Mixing operations (closed systems)PROC3	No other specific measures identified.

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Mixing operations (open systems)PROC4	No other specific measures identified		
Mold formingPROC14	No other specific measures identified		
gr		•	
Casting operations(open sys-	No other specific measures identified	•	
tems)Operation is carried out at			
elevated temperature (> 20°C			
above ambient tempera-			
ture).PROC6	No other constitution of the CC of		
SprayingMachinePROC11	No other specific measures identified.		
SprayingManualPROC11	No other specific measures identified		
ManualRolling, Brush-	No other specific measures identified		
ingPROC10			
Storage.PROC1PROC2	Store substance within a closed syste	em.	
	ontrol of Environmental Exposure		
Substance is complex UVCB.			
Predominantly hydrophobic.			
Readily biodegradable.			
Amounts Used			
Fraction of EU tonnage used in r		0,1	
Regional use tonnage (tonnes/year):		4,1	
Fraction of Regional tonnage used locally:		0,0005	
Annual site tonnage (tonnes/year):		0,0021	
Maximum daily site tonnage (kg/day):		0,0056	
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 facto		100	
Other Operational Conditions affecting Environmental Exposure			
Release fraction to air from wide dispersive use (regional only):		0,95	
Release fraction to wastewater from wide dispersive use:		0,025	
Release fraction to soil from wide dispersive use (regional only): 0,025			
Technical conditions and measures at process level (source) to prevent release			
· · · · · · · · · · · · · · · · · · ·	ites thus conservative process re-		
lease estimates used.		<u> </u>	
	nd measures to reduce or limit discha	arges, air emis-	
sions and releases to soil	us is duiven by fusebyrates	<u> </u>	
Risk from environmental exposure is driven by freshwater.			
No wastewater treatment required. Treat air emission to provide a typical removal officiency of (%)		0	
Treat air emission to provide a typical removal efficiency of (%)		0	
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)		0	
If discharging to domestic sewage treatment plant, no secondary		0	
wastewater treatment required.			
Organisational measures to prevent/limit release from site			
Do not apply industrial sludge to natural soils.			

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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		
treatment (%)			
Total efficiency of removal from wastewater after onsite and offsite	96		
(domestic treatment plant) RMMs (%)			
Maximum allowable site tonnage (MSafe) based on release following	2,7E+02		
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		

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 b	peen 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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects. Risk Management Measures are based on qualitative risk characterisation.

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

Section 4.2 - Environment

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

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

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

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

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Exposure Scenario - Worker

Contributing Scenarios

Exposure oceriano - W	OTRC!
30000000910	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as binders and release agents- Industrial
Use Descriptor	Sector of Use: SU 3 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 6, PROC 7, PROC 8b, PROC 10, PROC 13, PROC 14 Environmental Release Categories: ERC4, ESVOC SpERC 4.10a.v1
Scope of process	Covers the use as binders and release agents including material transfers, mixing, application (including spraying and brushing), and handling of waste.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES		
Section 2.1	Control of Worker Exposure		
Product Characteristics			
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at S	TP	
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 than 20°C above ambient temperature (unless stated differently). Assumes a good basic standard of occupational hygiene is implemented.			

Risk Management Measures

General measures (skin irri-Avoid direct skin contact with product. Identify potential areas tants). for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 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. Bulk transfersUse in contained No other specific measures identified. systemsPROC1PROC2PROC3

Drum/batch transfersPROC8b No other specific measures identified.

Mixing operations (closed systems)PROC3

Mixing operations (open systems)

No other specific measures identified.

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tems)PROC4				
Mold formingPROC14	No other specific measures identified			
Casting operations(open sys-	No other specific measures identified			
tems)Operation is carried out	at			
elevated temperature (> 20°C				
above ambient tempera-				
ture).PROC6				
SprayingMachinePROC7	No other specific measures identified			
SprayingManualPROC7	No other specific measures identified			
ManualRolling, Brush- ingPROC10	·	No other specific measures identified.		
Dipping, immersion and pouringPROC13	No other specific measures identified			
Storage.PROC1PROC2	Store substance within a closed syste	em.		
Section 2.2	Control of Environmental Exposure			
Substance is complex UVCB.	•			
Predominantly hydrophobic.				
Readily biodegradable.				
Amounts Used				
Fraction of EU tonnage used in	n region:	0,1		
Regional use tonnage (tonnes		30		
Fraction of Regional tonnage		1		
Annual site tonnage (tonnes/y	•	30		
Maximum daily site tonnage ((a/day):	1,500		
Frequency and Duration of		1,300		
Continuous release.				
Emission Days (days/year):		20		
	nfluenced by risk management	20		
Local freshwater dilution factor		10		
Local marine water dilution factor: 100 Other Operational Conditions affecting Environmental Exposure				
	ocess (initial release prior to RMM):	1,0		
	er from process (initial release prior to	3E-06		
RMM):		3L-00		
	rocess (initial release prior to RMM):	0		
	easures at process level (source) to pr	event release		
	s sites thus conservative process re-			
lease estimates used.		L		
	and measures to reduce or limit disch	arges, air emis-		
sions and releases to soil	arma in driven har anil			
Risk from environmental exposure is driven by soil.				
Prevent discharge of undissolved substance to or recover from onsite				
wastewater.				
No wastewater treatment required. Treat air emission to provide a typical removal efficiency of (%) 80				
Treat onsite wastewater (prior	0			
the required removal efficienc	y UI >= (70)			

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If discharging to domestic sewage treatment plant, no secondary	0
wastewater treatment required.	
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
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	9,2E+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 tool has been used to estimate workplace exposures upless otherwise		

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

Section 3.2 - Environment

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

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	
Measures/Operational Condit Available hazard data do not Risk Management Measures Where other Risk Manageme	expected to exceed the DN(M)EL when the Risk Management cions outlined in Section 2 are implemented. enable the derivation of a DNEL for dermal irritant effects. are based on qualitative risk characterisation. ent Measures/Operational Conditions are adopted, then users 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).

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Exposure Scenario - Worker

Exposure oceriano - Work	···
30000000909	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Metal working fluids / rolling oils- Professional
Use Descriptor Sector of Use: SU 22	
-	Process Categories: PROC 1, PROC 2, PROC 3, PROC 5,
	PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC
	13, PROC 17
	Environmental Release Categories: ERC8a, ERC8d,
	ESVOC SpERC 8.7c.v1
Scope of process	Covers the use in formulated MWFs including transfer opera-
	tions, open and contained cutting/machining activities, auto-
	mated and manual application of corrosion protections, drain-
	ing and working on contaminated/ reject articles, and disposal
	of waste oils.

SECTION 2	OPERATIONAL CONDITIONS AND RISH MEASURES	(MANAGEMENT
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa at ST	Р
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 Conditio	ns 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	Risk Managen	nent Measures	
General measures (skin irrital	nts).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills soon as they occur. Wash off any skin contamition immediately. Provide basic employee train to prevent / minimise exposures and to report a skin problems that may develop. Other skin protection measures such as imperous suits and face shields may be required dur high dispersion activities which are likely to leat to substantial aerosol release, e.g. spraying.	ina- ning any vi- ring
General exposures (closed sy tems)PROC1PROC2PROC3		No other specific measures identified.	
Bulk transfersPROC8b		No other specific measures identified.	

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Filling/ preparation of equipm	ent from drums	No other specific measu	res identified.
or contain-			
ers.PROC5PROC8aPROC8b	PROC9	N d	
Process samplingPROC8b		No other specific measu	res identified.
Metal machining operationsP	ROC17	No other specific measu	ires identified.
ManualRolling, BrushingPRO	C10	No other specific measu	ires identified.
SprayingPROC11		No other specific measu	res identified.
Treatment by dipping and por	uringPROC13	No other specific measu	ires identified.
Equipment cleaning and mair	ntenanceNon-	No other specific measu	ires identified.
dedicated facilityPROC8a	tanana Dadi	No other proditions	
Equipment cleaning and mair cated facilityPROC8b	nenanceDeal-	No other specific measu	res identilled.
Storage.PROC1PROC2		Store substance within a	a closed system.
Section 2.2	Control of Env	vironmental Exposure	
Substance is complex UVCB		•	
Predominantly hydrophobic.			
Readily biodegradable.			
Amounts Used			.1
Fraction of EU tonnage used	in region:		0,1
Regional use tonnage (tonne			1,1
Fraction of Regional tonnage	used locally:		5,0E-04
Annual site tonnage (tonnes/			5,3E-04
Maximum daily site tonnage (1,4E-03
Frequency and Duration of			
Continuous release.			
Emission Days (days/year):			365
Environmental factors not i	nfluenced by ri	sk management	1 000
Local freshwater dilution factor		<u> </u>	10
Local marine water dilution fa			100
Other Operational Conditio		vironmental Exposure	1.00
Release fraction to air from w			0,6
Release fraction to wastewate			5,0E-02
Release fraction to soil from v			5,0E-02
Technical conditions and measures at process level (source) to prevent release			
Common practices vary acros			
lease estimates used.		process	
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	
Treat onsite wastewater (prio			0
the required removal efficience		itor discriarge) to provide	
If all a learning to deposit of	by 01 /- (70)	.1	+_

0

If discharging to domestic sewage treatment plant, no secondary

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wastewater treatment required.	
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 Massures related to municipal sowage treatment of	Jont
Conditions and Measures related to municipal sewage treatment p	
Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	70
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.	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 FORTON TRACE III and the second of the s	

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

Section 3.2 - Environment

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

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO
Section 4.1 - Health	

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

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or in combination.

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

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Exposure Scenario - Worker

30000000908	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Metal working fluids / rolling oils- Industrial
Use Descriptor	Sector of Use: SU 3 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 13, PROC 17 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 MANAGE MEASURES	MENT
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 differently).,	stated
Frequency and Duration of Use		
Covers daily exposures up to	o 8 hours (unless stated differently).	
Other Operational Conditions affecting Exposure		
Assumes use at not more than 20°C above ambient temperature (unless stated differently).		erently).

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 measures (skin irrita	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop. 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.
General exposures (closed s tems)PROC1PROC2PROC3	·
General exposures (open sys	No other specific measures identified.

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tems)PROC4	
Bulk transfersPROC8b	No other specific measures identified.
Filling/ preparation of equipment from drums or containers.PROC5PROC8bPROC9	No other specific measures identified.
Process samplingPROC8b	No other specific measures identified.
Metal machining operationsPROC17	No other specific measures identified.
Treatment by dipping and pouringPROC13	No other specific measures identified.
SprayingPROC7	No other specific measures identified.
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.
Semi-automated metal rolling/formingPROC4	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.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used	in region:	0,1
Regional use tonnage (tonnes	s/year):	2,1
Fraction of Regional tonnage	used locally:	1
Annual site tonnage (tonnes/y	vear):	2,1
Maximum daily site tonnage (kg/day):	110
Frequency and Duration of	Use	
Continuous release.		
Emission Days (days/year):		20
Environmental factors not i	nfluenced by risk management	
Local freshwater dilution factor	or:	10

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Other Operational Conditions affecting Environmental Exposure Release fraction to air from process (initial release prior to RMM): Release fraction to wastewater from process (initial release prior to RMM): Release fraction to wastewater from process (initial release prior to RMM): Release fraction to soil from process (initial release prior to RMM): O Technical conditions and measures at process level (source) to prevent release Common practices vary across sites thus conservative process release estimates used. Technical onsite conditions and measures to reduce or limit discharges, air emissions 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. No wastewater treatment required. Treat air emission to provide a typical removal efficiency of (%) Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%) if discharging to domestic sewage treatment plant, no secondary wastewater treatment required. 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 treatment (%) Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d) Assumed domestic sewage treatment plant flow (m3/d) Zood 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.		
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Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%) Maximum allowable site tonnage (MSafe) based on release following total 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 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	Estimated substance removal from wastewater via domestic sewage	96
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 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	treatment (%)	
Maximum allowable site tonnage (MSafe) based on release following total 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 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	Total efficiency of removal from wastewater after onsite and offsite	96
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	(domestic 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 regiona regulations. Conditions and measures related to external recovery of waste External recovery and recycling of waste should comply with applicable local and/or regiona		3,3E+06
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		
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	Assumed domestic sewage treatment plant flow (m3/d)	
Conditions and measures related to external recovery of waste External recovery and recycling of waste should comply with applicable local and/or regiona	Conditions and Measures related to external treatment of waste for	r disposal
Conditions and measures related to external recovery of waste External recovery and recycling of waste should comply with applicable local and/or regiona	External treatment and disposal of waste should comply with applicable	local and/or regional
External recovery and recycling of waste should comply with applicable local and/or regional	regulations.	
External recovery and recycling of waste should comply with applicable local and/or regional		
	Conditions and measures related to external recovery of waste	
regulations.		local and/or regional
	regulations.	

SECTION 3	EXPOSURE ESTIMATION
Section 3.1 - Health	
The ECETOC TRA tool has b	een 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

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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

Section 4.2 - Environment

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

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

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

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

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Exposure Scenario - Worker

30000000916	000000916	
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Functional Fluids- Professional	
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 1, PROC 2, PROC 3, PROC 8a, PROC 9, PROC 20 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 Sub- Covers use of substance/product up to 100% (unless stated		
stance in Mixture/Article	differently).,	
Frequency and Duration of Use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other Operational Conditions affecting Exposure		
Assumes use at not more than 20°C above ambient temperature (unless stated differently).		
Assumes a good basic standard of occupational hygiene is implemented.		
Cantula via a Casporias	Diek Management Massures	

Contributing Scenarios	Risk Management Measures	
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential area for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.	i-
Drum/batch transfersPROC8a	No other specific measures identified.	
Transfer from/pouring from co tainersPROC9	n- No other specific measures identified.	
Filling/ preparation of equipme from drums or containers.PROC9	ent No other specific measures identified.	
General exposures (closed systems)PROC1PROC2PRO	No other specific measures identified.	
Operation of equipment conta ing engine oils and simi-	in- No other specific measures identified.	

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lar.PROC20		
Operation of equipment contain-	No other specific measures identified	d.
ing engine oils and simi-		
lar.Operation is carried out at		
elevated temperature (> 20°C		
above ambient tempera-		
ture).PROC20	No other control of the control of t	1
Remanufacture of reject articlesPROC9	No other specific measures identified	
Equipment maintenance-PROC8a	No other specific measures identified	d.
Storage.PROC1PROC2	Store substance within a closed syst	em.
Section 2.2 Co	ntrol of Environmental Exposure	
Substance is complex UVCB.	•	
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		l .
Fraction of EU tonnage used in re	agion:	0,1
Regional use tonnage (tonnes/yea		4
Fraction of Regional tonnage use		0,0005
Annual site tonnage (tonnes/year)		0,000
Maximum daily site tonnage (kg/d		0,0055
Frequency and Duration of Use		0,0000
Continuous release.		
Emission Days (days/year): 365		
Environmental factors not influenced by risk management		303
Local freshwater dilution factor: 10		
Local marine water dilution factor:	•	100
	ffecting Environmental Exposure	100
Release fraction to air from wide of		0,05
Release fraction to wastewater from	1 1	0,025
Release fraction to soil from wide		0,025
	ures at process level (source) to pro	
Common practices vary across si		event release
lease estimates used.	tes thus conservative process re-	
	d measures to reduce or limit disch	arges air emis-
sions and releases to soil	d incasures to reduce or mint discin	arges, an emis-
Risk from environmental exposure	e is driven by freshwater	
No wastewater treatment required		
		0
Treat air emission to provide a typical removal efficiency of (%) Treat onsite wastewater (prior to receiving water discharge) to provide		0
the required removal efficiency of >= (%)		
If discharging to domestic sewage treatment plant, no secondary		0
wastewater treatment required.		
Organisational measures to pre	event/limit release from site	
Do not apply industrial sludge to r		
Sludge should be incinerated, cor	ntained or reclaimed.	
Conditions and Measures relate	ed to municipal sewage treatment p	lant

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Estimated substance removal from wastewater via domestic sewage treatment (%)	96
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	2,6E+02
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Conditions and Measures related to external treatment of waste for	r dienocal

Conditions and Measures related to external treatment of waste for disposal

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

Conditions and measures related to external recovery of waste

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

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

Section 3.2 - Environment

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

EXPOSURE SCENARIO	SECTION 4 GUIDANCE TO CHECK COMPLIANCE WITH THE
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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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

Section 4.2 -Environment

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

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

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

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

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Exposure Scenario - Worker

30000000915	000000915	
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Functional Fluids- Industrial	
Use Descriptor	Sector of Use: SU 3 Process Categories: PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 9 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.	

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 use of substance/product up to 100% (unless stated	
stance in Mixture/Article	differently).,	
Frequency and Duration of Use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other Operational Conditions affecting Exposure		
Assumes use at not more than 20°C above ambient temperature (unless stated differently).		
Assumes a good basic stand	ard of occupational hygiene is implemented.	
C	, , , , , , , , , , , , , , , , , , , ,	
Contributing Scenarios	Risk Management Measures	
General measures (skin irritants).	Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop.	
Bulk transfers(closed systems)PROC1PROC2	No other specific measures identified.	
Drum/batch transfersDedicated facilityPROC8b	No other specific measures identified.	
Filling of arti- cles/equipment(closed sys- tems)PROC9	No other specific measures identified.	
Filling/ preparation of equipment from drums or containers.Non-dedicated facilityPROC8a	No other specific measures identified.	

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systems)PROC2 General exposures (open systems)PROC4 Remanufacture of reject articlesPROC9 Equipment maintenance-PROC8a Storage.PROC1PROC2	No other specific measures identified. Store substance within a closed system. Control of Environmental Exposure		
systems)PROC4 Remanufacture of reject articlesPROC9 Equipment maintenance-PROC8a Storage.PROC1PROC2	No other specific measures identified. No other specific measures identified. Store substance within a closed system.		
Remanufacture of reject articlesPROC9 Equipment maintenance-PROC8a Storage.PROC1PROC2	No other specific measures identified. Store substance within a closed system.		
Equipment maintenance- PROC8a Storage.PROC1PROC2	Store substance within a closed system.		
Storage.PROC1PROC2	·		
Section 2.2	Control of Environmental Exposure		
	,		
Substance is complex UVCB.			
Predominantly hydrophobic.			
Readily biodegradable.			
Amounts Used			
Fraction of EU tonnage used in	region:	0,1	
Regional use tonnage (tonnes/		6	
Fraction of Regional tonnage u		1	
Annual site tonnage (tonnes/ye	•	6	
Maximum daily site tonnage (kg		300	
Frequency and Duration of U			
Continuous release.			
		20	
	fluenced by risk management	<u> </u>	
Local freshwater dilution factor:			
Local marine water dilution fac-	tor:	100	
Other Operational Conditions affecting Environmental Exposure			
Release fraction to air from pro	ocess (initial release prior to RMM):	0,01	
Release fraction to wastewater from process (initial release prior to RMM): 3E-05			
Release fraction to soil from process (initial release prior to RMM): 0,001			
Technical conditions and measures at process level (source) to prevent release			
Common practices vary across sites thus conservative process release estimates used.			
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil			
Risk from environmental expos	sure is driven by freshwater sediment.		
Prevent discharge of undissolv wastewater.	ed substance to or recover from onsite		
No wastewater treatment requi	red.		
		0	
Treat onsite wastewater (prior to receiving water discharge) to provide 0			
	the required removal efficiency of >= (%)		
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.		0,0	
	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	from wastewater via domestic sewage	96	

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treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96
(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 Measures related to external treatment of waste for disposal	

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

Conditions and measures related to external recovery of waste

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

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

Section 3.2 - Environment

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

SECTION 4	GUIDANCE TO CHECK COMPLIANCE WITH THE
	EXPOSURE SCENARIO

Section 4.1 - Health

Predicted exposures are not expected to exceed the DN(M)EL when the Risk Management Measures/Operational Conditions outlined in Section 2 are implemented.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

Section 4.2 - Environment

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

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

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

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

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Exposure Scenario - Worker

30000000919	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in laboratories- Professional
Use Descriptor	Sector of Use: SU 22 Process Categories: PROC 10, PROC 15 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.

SECTION 2	OPERATIONAL CONDITIONS AND F	RISK MANAGEMENT
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure 0.5 - 10 kPa a	at STP
Concentration of the Sub-	Covers use of substance/product up to	o 100% (unless stated
stance in Mixture/Article	differently).,	•
Frequency and Duration of	Use	
	8 hours (unless stated differently).	
Other Operational Condition		·
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 measures (skin irritants).	Avoid direct skin contact with product. for indirect skin contact. Wear gloves hand contact with substance likely. Cle tion/spills as soon as they occur. Wasl nation immediately. Provide basic emporent / minimise exposures and to report that may develop.	(tested to EN374) if ean up contamina-h off any skin contami- bloyee training to pre-
Laboratory activi- tiesPROC15	No other specific measures identified.	
CleaningPROC10	No other specific measures identified.	
Section 2.2	Control of Environmental Exposure	!
Substance is complex UVCB	•	
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		l .
Fraction of EU tonnage used	in region:	0,1
		0,7
	<i>j j</i> -	-1.

0,0005

3,5E-04

Fraction of Regional tonnage used locally:

Annual site tonnage (tonnes/year):

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Maximum daily site tonnage (kg/day):	9,6E-04
Frequency and Duration of Use	0,02 01
Continuous release.	
Emission Days (days/year):	365
Environmental factors not influenced by risk management	000
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
Other Operational Conditions affecting Environmental Exposure	100
Release fraction to air from wide dispersive use (regional only):	0.5
Release fraction to wastewater from wide dispersive use:	0,5
Release fraction to wastewater from wide dispersive use. Release fraction to soil from wide dispersive use (regional only):	0,5
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 dischasions and releases to soil	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	0
the required removal efficiency of >= (%)	
If discharging to domestic sewage treatment plant, no secondary	0
wastewater treatment required.	
Organisational measures to prevent/limit release from site	
Do not apply industrial sludge to natural soils.	
Sludge should be incinerated, contained or reclaimed.	
O. 191.	I 4
Conditions and Measures related to municipal sewage treatment p	
Estimated substance removal from wastewater via domestic sewage	96
treatment (%)	00
Total efficiency of removal from wastewater after onsite and offsite	96
(domestic treatment plant) RMMs (%)	40
Maximum allowable site tonnage (MSafe) based on release following	40
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	local and/or regional
regulations.	
Conditions and management related to systems I recovery of waste	
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable	iocai and/or regional
regulations.	

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

Section 3.2 -Environment

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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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

Section 4.2 - Environment

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

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

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

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

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Exposure Scenario - Worker

Exposure occitatio 110	ino.
30000000918	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use in laboratories- Industrial
Use Descriptor	Sector of Use: SU 3 Process Categories: PROC 10, PROC 15 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 use of substance/product up to 100% (unless stated differently).,	
Frequency and Duration of Use		
Covers daily exposures up to 8 hours (unless stated differently).		
Other Operational Conditions affecting Exposure		
Assumes use at not more than 20°C above ambient temperature (unless stated differently).		

Assumes 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 measures (skin irritants).	Avoid direct skin contact with product. Id for indirect skin contact. Wear gloves (to hand contact with substance likely. Clear tion/spills as soon as they occur. Wash on nation immediately. Provide basic employent / minimise exposures and to report that may develop.	ested to EN374) if n up contamina- off any skin contami- oyee training to pre-	
Laboratory activitiesPROC15	No other specific measures identified.		
CleaningPROC10	No other specific measures identified.		
Section 2.2	Control of Environmental Exposure		
Substance is complex UVCB.			
Predominantly hydrophobic.			
Readily biodegradable.	Readily biodegradable.		
Amounts Used			
Fraction of EU tonnage used in region:		0,1	
Regional use tonnage (tonnes/year):		0,7	
Fraction of Regional tonnage used locally:		ļ ·	
Annual site tonnage (tonnes/year): 0,7			
Maximum daily site tonnage (kg/day): 35		35	

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Frequency and Duration of Use	
Continuous release.	1
	20
Emission Days (days/year):	20
Environmental factors not influenced by risk management	10
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
Other Operational Conditions affecting Environmental Exposure	0.005
Release fraction to air from process (initial release prior to RMM):	0,025
Release fraction to wastewater from process (initial release prior to	0,02
RMM):	
Release fraction to soil from process (initial release prior to RMM):	0,0001
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 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, no secondary	0
wastewater treatment required.	
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
treatment (%)	
Total efficiency of removal from wastewater after onsite and offsite	96
(domestic treatment plant) RMMs (%)	
Maximum allowable site tonnage (MSafe) based on release following	4.900
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.	2 2 2 2 2 2 2 2 2 2 2 3 2 3 2 3 2 3 2 3
· 9 · ··· · ·	
Conditions and measures related to external recovery of waste	
External recovery and recycling of waste should comply with applicable	local and/or regional
regulations.	
· - G	

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

Section 3.2 - Environment

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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.

Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.

Risk Management Measures are based on qualitative risk characterisation.

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

Section 4.2 - Environment

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

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

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

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

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Exposure Scenario - Consumer

30000001145					
SECTION 1 EXPOSURE SCENARIO TITLE					
Title	Uses in Coatings - Consumer				
Use Descriptor	Sector of Use: SU 21 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 AND RISK MANAGEMENT MEASURES			
Section 2.1	Control of Consumer Exposur	Control of Consumer Exposure		
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 a	mount up to (g):	13.800		
covers skin contact area (cm2): 857,5		857,5		
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):		8		
Other Operational Condition	ons affecting Exposure	<u> </u>		
Unless stated otherwise.	<u> </u>			

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 Covers concentrations up to 30 %		
Adhesives, sealants Glues, hobby use.			
	covers use up to 365 day/year		
	covers use up to 1 times/day of use		
	covers skin contact area up to (cm2): 35,73 cm2		
	For each use event, covers amount up to 9 g		
	Covers use in room size of 20 m3		

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	Covers expecting up to A hours/event
	Covers exposure up to 4 hours/event
	Covers use under typical household ventilation.
Adhesives, sealants Glues DIY-use (carpet glue, tile glue, wood parquet glue).	Covers concentrations up to 30 %
giae, weed parquet giae).	covers use up to 1 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 110,00 cm2
	For each use event, covers amount up to 6.390 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 6,00 hours/event
Adhesives, sealants Glue from spray.	Covers concentrations up to 30 %
•	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35,73 cm2
	For each use event, covers amount up to 85,05 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 4,00 hours/event
Adhesives, sealants Sealants.	Covers concentrations up to 30 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 35,73 cm2
	For each use event, covers amount up to 75 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1,00 hours/event
Anti-Freeze and de-icing products Washing car window.	Covers concentrations up to 1 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 0,5 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
	Covers exposure up to 0,02 hours/event
Anti-Freeze and de-icing products Pouring into radiator.	Covers concentrations up to 10 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428,00 cm2
	For each use event, covers amount up to 2.000 g
	Covers use in a one car garage (34 m3) under typical ventila-
	tion.
	Covers use in room size of 34 m3
	Covers exposure up to 0,17 hours/event

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Anti-Freeze and de-icing products Lock de-icer.	Covers concentrations up to 50 %
producto Econ de loci.	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 ventila-
	tion.
	Covers use in room size of 34 m3
	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 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857,50 cm2
	For each use event, covers amount up to 15 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0,50 hours/event
Biocidal products (e.g. Dis- infectants, pest control) (excipient only). Cleaners, liquids (all purpose clean- ers, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	Covers concentrations up to 5 %
	covers use up to 128 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857,50 cm2
	For each use event, covers amount up to 27 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0,33 hours/event
Biocidal products (e.g. 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
	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.	
torborno latox wan paint.	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428,75 cm2
	For each use event, covers amount up to 2.760 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2,20 hours/event
Coatings and paints, thin- 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 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
	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
	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
	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 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
Ellere D. G M. J. II.	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 Finger paints	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): 254,40 cm2
	For each use event, assumes swallowed amount of 1,35 g
Non-metal-surface treat- 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
	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
	Covers exposure up to 2,20 hours/event
Non-metal-surface treat- ment products Aerosol spray can.	Covers concentrations up to 50 %
	covers use up to 2 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 215 g
	Covers use in a one car garage (34 m3) under typical ventilation.
	Covers use in room size of 34 m3
Non-metal-surface treat-	Covers exposure up to 0,33 hours/event Covers concentrations up to 50 %
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
	Covers exposure up to 2,00 hours/event
Ink and toners Inks and	Covers concentrations up to 10 %
toners.	'
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 71,40 cm2
	For each use event, covers amount up to 40 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 2,20 hours/event
Leather tanning, dye, finish-	Covers concentrations up to 50 %
ing, impregnation and care products 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 56 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1,23 hours/event
Leather tanning, dye, 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
	Covers exposure up to 0,33 hours/event
Lubricants, greases, release products Liquids.	Covers concentrations up to 100 %
- 1	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 a one car garage (34 m3) under typical ventila-

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Lubricanta graceca re	Covers concentrations up to 20.0/
Lubricants, greases, release products Pastes.	Covers concentrations up to 20 %
	covers use up to 10 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468,00 cm2
	For each use event, covers amount up to 34 g
	Covers exposure up to 4 hours/event
Lubricants, greases, re-	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
	For each use event, covers amount up to 73 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0,17 hours/event
Polishes and wax blends	Covers concentrations up to 50 %
Polishes, wax / cream	Covers concentrations up to 50 %
(floor, furniture, shoes).	
(11001, Turriture, 3110e3).	covers use up to 29 day/year
	covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 430,00 cm2
	For each use event, covers amount up to 142 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1,23 hours/event
Polishes and wax blends Polishes, spray (furniture,	Covers concentrations up to 50 %
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
	Covers exposure up to 0,33 hours/event
Textile dyes, finishing and	Covers concentrations up to 10 %
impregnating products;	Covers concentrations up to 10 %
including bleaches and	
other processing aids	
caron processing and	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857,50 cm2
	For each use event, covers amount up to 115 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 1,00 hours/event

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

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Readily biodegradable.			
Amounts Used	1		
Fraction of EU tonnage used in region:	0,1		
Regional use tonnage (tonnes/year):	270		
Fraction of Regional tonnage used locally:	5,0E-04		
Annual site tonnage (tonnes/year):	0,14		
Maximum daily site tonnage (kg/day):	0,37		
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): 0,985			
Release fraction to wastewater from wide dispersive use:	0,01		
Release fraction to soil from wide dispersive use (regional only):	0,005		
Conditions and Measures related to municipal sewage treatment	olant		
Risk from environmental exposure is driven by soil.			
Estimated substance removal from wastewater via domestic sewage	96		
treatment (%)			
Maximum allowable site tonnage (MSafe) based on release following	9.600		
total wastewater treatment removal (kg/d)			
Assumed domestic sewage treatment plant flow (m3/d)	2,0E+03		
Conditions and Measures related to external treatment of waste for	or disposal		
External treatment and disposal of waste should comply with applicabl	e local and/or region-		
al regulations.			
Conditions and measures related to external recovery of waste			

		applicable local a

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.

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

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

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).

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Exposure Scenario - Consumer

30000001148		
SECTION 1	EXPOSURE SCENARIO TITLE	
Title	Use in Cleaning Agents - Consumer	
Use Descriptor	Sector of Use: SU 21 Product Categories: PC3, PC4, PC8 (excipient only), PC9a, PC24, PC35, 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 RISK MANAGEMENT MEASURES	
Section 2.1	Control of Consumer Exposure	
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
covers skin contact area (cm2):		857,5
Frequency and Duration of	Use	
Unless stated otherwise.		
Covers use up to (days/year):		365
covers use up to (times/day of use):		1
Exposure (hours/event):		8
Other Operational Condition	ons affecting Exposure	
Unless stated otherwise.	•	
Covers use at ambient temp	eratures	

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

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

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

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	Covers averaging up to 0.47 hours/avent
Lubricanta arcasas ra	Covers exposure up to 0,17 hours/event
Lubricants, greases, release products Pastes.	Covers concentrations up to 20 %
	covers use up to 10 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468 cm2
	For each use event, covers amount up to 34 g
	Covers exposure up to 4 hours/event
Lubricants, greases, release products Sprays.	Covers concentrations up to 50 %
	covers use up to 6 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 428,75 cm2
	For each use event, covers amount up to 73 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0,17 hours/event
Washing and cleaning	Covers concentrations up to 5 %
products (including solvent based products) Laundry and dish washing products.	
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 857,50 cm2
	For each use event, covers amount up to 15 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0,50 hours/event
Washing and cleaning products (including solvent based products) Cleaners, liquids (all purpose cleaners, sanitary products, floor cleaners, glass cleaners, carpet cleaners, metal cleaners).	Covers concentrations up to 100 %
	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 27 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0,33 hours/event
Washing and cleaning products (including solvent based products) Cleaners, trigger sprays (all purpose cleaners, sanitary products,	Covers concentrations up to 15 %
glass cleaners).	
	covers use up to 128 day/year

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

Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used	in region:	0,1
Regional use tonnage (tonne	s/year):	20
Fraction of Regional tonnage	used locally:	0,0005
Annual site tonnage (tonnes/	year):	0,01
Maximum daily site tonnage ((kg/day):	0,027
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 Conditio	ns affecting Environmental Exposure	
Release fraction to air from w	ride dispersive use (regional only):	0,95
Release fraction to wastewater 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 remova treatment (%)	I from wastewater via domestic sewage	96
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)		1,1E+03
Assumed domestic sewage treatment plant flow (m3/d)		2.000
	elated to external treatment of waste fo	r disposal
	sal of waste should comply with applicable	

Conditions and measures related to external recovery of waste

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

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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.

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

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

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

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Exposure Scenario - Consumer

30000001152	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants - Consumer Low Environmental Release
Use Descriptor	Sector of Use: SU 21 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 A MEASURES	ND RISK MANAGEMENT
Section 2.1	Control of Consumer Exposure	
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 (%): 1	00 %
Amounts Used		
Unless stated otherwise.		
for each use event, covers a	mount up to (g):	13.800
covers skin contact area (cm2):		857,5
Frequency and Duration of	Use	
Unless stated otherwise.		
Covers use up to (days/year):		365
covers use up to (times/day of use):		1
Exposure (hours/event): 8		8
Other Operational Condition	ons 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 in room size of 20 m3
	Covers exposure up to 4,00 hours/event

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	Covers use under typical household ventilation.	
Adhesives, sealants Glues	Covers concentrations up to 30 %	
DIY-use (carpet glue, tile	Covere control that cap to cover	
glue, wood parquet glue).		
g.a.c,cca paqa.ct g.a.c/.	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 in room size of 20 m3	
	Covers exposure up to 6,00 hours/event	
	Covers use under typical household ventilation.	
Adhesives, sealants Glue	Covers concentrations up to 30 %	
from spray.	Covers concentrations up to 30 /0	
nom opiay.	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 in room size of 20 m3	
	Covers exposure up to 4,00 hours/event	
	Covers use under typical household ventilation.	
Adhasiyas saalants Saal	Covers concentrations up to 30 %	
Adhesives, sealants Sealants.	Covers concentrations up to 30 %	
ants.	covers use up to 265 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): 35,73 cm2	
	For each use event, covers amount up to 75 g	
	Covers use in room size of 20 m3	
	Covers exposure up to 1,00 hours/event	
Lubricanta massas na	Covers use under typical household ventilation.	
Lubricants, greases, re- lease products Liquids.	Covers concentrations up to 100 %	
	covers use up to 4 day/year	
	Covers use up to 1 times/day of use	
	1	
	covers skin contact area up to (cm2): 468,00 cm2	
	For each use event, covers amount up to 2.200 g	
	For each use event, covers amount up to 2.200 g	
	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 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- lease products Pastes.	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 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 Covers concentrations up to 20 %	
	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	
	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 Covers concentrations up to 20 % covers use up to 10 day/year Covers use up to 1 times/day of use	
	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 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 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 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	
lease products Pastes.	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 Covers concentrations up to 20 % covers use up to 10 day/year Covers use up to 1 times/day of use covers skin contact area up to (cm2): 468,00 cm2 For each use event, covers amount up to 34 g Covers exposure up to 4 hours/event	
lease products Pastes. Lubricants, greases, re-	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 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	
lease products Pastes.	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 Covers concentrations up to 20 % covers use up to 10 day/year Covers use up to 1 times/day of use covers skin contact area up to (cm2): 468,00 cm2 For each use event, covers amount up to 34 g Covers exposure up to 4 hours/event Covers concentrations up to 50 %	
lease products Pastes. Lubricants, greases, re-	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 Covers concentrations up to 20 % covers use up to 10 day/year Covers use up to 1 times/day of use covers skin contact area up to (cm2): 468,00 cm2 For each use event, covers amount up to 34 g Covers exposure up to 4 hours/event	

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	For each use event, covers amount up to 73 g
	Covers use in room size of 20 m3
	Covers exposure up to 0,17 hours/event
	Covers use under typical household ventilation.
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 in room size of 20 m3
	Covers exposure up to 1,23 hours/event
	Covers use under typical household ventilation.
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 in room size of 20 m3
	Covers exposure up to 0,33 hours/event
	Covers use under typical household ventilation.

Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used	in region:	0,1
Regional use tonnage (tonne	s/year):	4
Fraction of Regional tonnage	used locally:	0,0005
Annual site tonnage (tonnes/	year):	0,002
Maximum daily site tonnage (kg/day):	0,0055
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		
	ride 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
Conditions and Measures related to municipal sewage treatment plant		plant
Risk from environmental exposure is driven by freshwater.		
Estimated substance removal from wastewater via domestic sewage treatment (%)		96
Maximum allowable site tonnage (MSafe) based on release following		2,7E+02

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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 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.

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

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

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

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Exposure Scenario - Consumer

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SECTION 1	EXPOSURE SCENARIO TITLE
Title	Lubricants - Consumer High Environmental Release
Use Descriptor	Sector of Use: SU 21 Product Categories: PC1, PC24, PC31 Environmental Release Categories: ERC8a, ERC8d, ESVOC SpERC 8.6e.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		
Physical form of product	Liquid, vapour pressure > 10 Pa	
Concentration of the Substance in Mixture/Article	Unless stated otherwise.	
	Covers concentration up to (%): 1	00 %
Amounts Used		
Unless stated otherwise.		
for each use event, covers a	mount up to (g):	13.800
covers skin contact area (cm2):		857,5
Frequency and Duration of	Use	
Unless stated otherwise.		
Covers use up to (days/year):		365
covers use up to (times/day of use):		1
Exposure (hours/event): 8		8
Other Operational Condition	ons 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 in room size of 20 m3
	Covers exposure up to 4,00 hours/event

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Covers use under typical household ventilation.
Covers concentrations up to 30 %
Covere control matterns up to co /o
covers use up to 1 day/year
Covers use up to 1 times/day of use
covers skin contact area up to (cm2): 110,00 cm2
For each use event, covers amount up to 6.390 g
Covers use under typical household ventilation.
Covers use in room size of 20 m3
Covers exposure up to 6,00 hours/event
Covers concentrations up to 30 %
Covers concentrations up to 30 /0
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 in room size of 20 m3
Covers exposure up to 4,00 hours/event Covers use under typical household ventilation.
Covers concentrations up to 30 %
Covers concentrations up to 30 %
covers use up to 365 day/year
Covers use up to 1 times/day of use
covers skin contact area up to (cm2): 35,73 cm2
For each use event, covers amount up to 75 g
Covers use in room size of 20 m3
Covers exposure up to 1,00 hours/event
Covers use under typical household ventilation.
Covers concentrations up to 100 %
covers use up to 4 day/year
Covers use up to 1 times/day of use
covers skin contact area up to (cm2): 468,00 cm2
For each use event, covers amount up to 2.200 g
Covers use in a one car garage (34 m3) under typical ventila-
tion.
Covers use in room size of 34 m3
Covers use in room size of 34 m3 Covers exposure up to 0,17 hours/event
Covers use in room size of 34 m3
Covers use in room size of 34 m3 Covers exposure up to 0,17 hours/event Covers concentrations up to 20 %
Covers use in room size of 34 m3 Covers exposure up to 0,17 hours/event
Covers use in room size of 34 m3 Covers exposure up to 0,17 hours/event Covers concentrations up to 20 % covers use up to 10 day/year
Covers use in room size of 34 m3 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 use in room size of 34 m3 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
Covers use in room size of 34 m3 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
Covers use in room size of 34 m3 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 Covers exposure up to 4 hours/event Covers concentrations up to 50 %
Covers use in room size of 34 m3 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 Covers exposure up to 4 hours/event

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For each use event, covers amount up to 73 g
Covers use in room size of 20 m3
Covers exposure up to 0,17 hours/event
Covers use under typical household ventilation.
Covers concentrations up to 50 %
, '
covers use up to 29 day/year
Covers use up to 1 times/day of use
covers skin contact area up to (cm2): 430,00 cm2
For each use event, covers amount up to 142 g
Covers use in room size of 20 m3
Covers exposure up to 1,23 hours/event
Covers use under typical household ventilation.
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 in room size of 20 m3
Covers exposure up to 0,33 hours/event
Covers use under typical household ventilation.

Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used	in region:	0,1
Regional use tonnage (tonne	s/year):	4
Fraction of Regional tonnage	used locally:	0,0005
Annual site tonnage (tonnes/	year):	0,002
Maximum daily site tonnage (kg/day):	0,0055
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		
	ide dispersive use (regional only):	0,6
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		olant
Risk from environmental exposure is driven by freshwater.		
Estimated substance removal from wastewater via domestic sewage treatment (%)		96
Maximum allowable site tonnage (MSafe) based on release following		2,5E+02

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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 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.

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

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

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

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Exposure Scenario - Consumer

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30000001155	
SECTION 1	EXPOSURE SCENARIO TITLE
Title	Use as a fuel - Consumer
Use Descriptor	Sector of Use: SU 21 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 AND RISK MANAGEMENT MEASURES	
Section 2.1	Control of Consumer Exposure	
Product Characteristics		
Physical form of product	Liquid, vapour pressure > 10 Pa	
Concentration of the Substance in Mixture/Article	Unless stated otherwise.	
	Covers concentration up to (%): 10	00 %
Amounts Used		
Unless stated otherwise.		
for each use event, covers amount up to (g):		13.800
covers skin contact area (cm2):		857,5
Frequency and Duration of	of Use	
Unless stated otherwise.		
Covers use up to (days/year):		365
covers use up to (times/day of use):		1
Exposure (hours/event):		8
Other Operational Conditi	ons affecting Exposure	

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
Fuels Liquid: Automotive Refuelling.	Covers concentrations up to 100 %
	covers use up to 52 day/year
	covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 210,00 cm2
	For each use event, covers amount up to 37.500 g
	Covers outdoor use.
	Covers use in room size of 100 m3
	Covers exposure up to 0,05 hours/event
Fuels Liquid Scooter Refuelling.	Covers concentrations up to 100 %

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	covers use up to F2 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 cm2
	For each use event, covers amount up to 3.750 g
	Covers outdoor use.
	Covers use in room size of 100 m3
	Covers exposure up to 0,03 hours/event
Fuels Liquid, Garden Equipment - Use.	Covers concentrations up to 100 %
	covers use up to 26 day/year
	Covers use up to 1 times/day of use
	For each use event, covers amount up to 750 g
	Covers outdoor use.
	Covers use in room size of 100 m3
	Covers exposure up to 2,00 hours/event
Fuels Liquid: Garden Equipment - Refuelling.	Covers concentrations up to 100 %
1 1	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 ventila-
	tion. Covers use in room size of 34 m3
E de la calabia	Covers exposure up to 0,03 hours/event
Fuels Liquid: Home space heater fuel.	Covers concentrations up to 100 %
	covers use up to 365 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 210,00 cm2
	For each use event, covers amount up to 3.000 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0,03 hours/event
Fuels Liquid: Lamp oil.	Covers concentrations up to 100 %
•	covers use up to 52 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 210,00 cm2
	For each use event, covers amount up to 100 g
	Covers use under typical household ventilation.
	Covers use in room size of 20 m3
	Covers exposure up to 0,01 hours/event
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Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used	in region:	0,1
Regional use tonnage (tonne	s/year):	29

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Fraction of Regional tonnage used locally:	0,0005
Annual site tonnage (tonnes/year):	0,015
Maximum daily site tonnage (kg/day):	0,04
Frequency and Duration of Use	
Continuous release.	
Emission Days (days/year):	365
Environmental factors not influenced by risk management	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
Other Operational Conditions affecting Environmental Exposure	
Release fraction to air from wide dispersive use (regional only):	0,01
Release fraction to wastewater from wide dispersive use:	0,00001
Release fraction to soil from wide dispersive use (regional only):	0,00001
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	96
treatment (%)	
Maximum allowable site tonnage (MSafe) based on release following	2,0E+03
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 assessn	nent.

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.

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 - Consumer

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SECTION 1	EXPOSURE SCENARIO TITLE
Title	Functional Fluids - Consumer
Use Descriptor	Sector of Use: SU 21 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 MEASURES	RISK MANAGEMENT
Section 2.1	Control of Consumer Exposure	
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
covers skin contact area (cm2):		857,5
Frequency and Duration o	f Use	
Unless stated otherwise.		
Covers use up to (days/year):		4
covers use up to (times/day of use):		1
Exposure (hours/event):		0,17
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
Heat transfer fluids Liquids.	Covers concentrations up to 100 %
	covers use up to 4 day/year
	Covers use up to 1 times/day of use
	covers skin contact area up to (cm2): 468,00 cm2
	For each use event, covers amount up to 2.200 g
	Covers use in a one car garage (34 m3) under typical ventila-
	tion.
	Covers use in room size of 34 m3
	Covers exposure up to 0,17 hours/event
Hydraulic fluids Liquids.	Covers concentrations up to 100 %

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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
Covers exposure up to 0,17 hours/event

Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Predominantly hydrophobic.		
Readily biodegradable.		
Amounts Used		
Fraction of EU tonnage used in region:		0,1
Regional use tonnage (tonnes/year):		2
Fraction of Regional tonnage used locally:		0,0005
Annual site tonnage (tonnes/year):		0,001
Maximum daily site tonnage (kg/day):		0,0027
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	_
Release fraction to air from wide dispersive use (regional only):		0,05
Release fraction to wastewater from wide dispersive use:		0,025
Release fraction to soil from wide 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
treatment (%)		
Maximum allowable site tonnage (MSafe) based on release following		3,0E+02
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 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.

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

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

Further details on scaling and control technologies are provided in SpERC factsheet (http://cefic.org/en/reach-for-industries-libraries.html).