

# SAFETY DATA SHEET

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

## NEODOL 45

Version	Revision Date:	SDS Number:	Date of last issue: 17.11.2023
5.0	29.04.2024	800001001064	Print Date 06.05.2024

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

#### 1.1 Product identifier

Trade name	: NEODOL 45
Product code	: V2456
Registration number EU	: 01-2119486413-36-0001
CAS-No.	: 120944-67-4

EC-No.	: 931-287-9
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#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

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

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

Manufacturer/Supplier	: <b>Shell Chemicals Europe B.V.</b> 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 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)  
Giftnotruf (Berlin): +49 (0) 30 3068 6700

Other information	: NEODOL is a trademark owned by Shell Trademark Management B.V. and Shell Brands Inc. and used by affiliates of Royal Dutch Shell plc.
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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
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Long-term (chronic) aquatic hazard, Cat-	H410: Very toxic to aquatic life with long lasting
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### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements :  
PHYSICAL HAZARDS:  
Not classified as a physical hazard according to CLP criteria.  
HEALTH HAZARDS:  
Not classified as a health hazard under CLP criteria.  
ENVIRONMENTAL HAZARDS:  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.

**Response:**  
P391 Collect spillage.

**Storage:**  
No precautionary phrases.

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

### 2.3 Other hazards

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

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

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### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

##### Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
Alcohols, C14-15-branched and linear	Not Assigned 931-287-9	<= 100

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Not expected to be a health hazard when used under normal conditions.
- Protection of first-aiders : When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the incident, injury and surroundings.
- If inhaled : No treatment necessary under normal conditions of use. If symptoms persist, obtain medical advice.
- In case of skin contact : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.  
If persistent irritation occurs, obtain medical attention.
- In case of eye contact : Flush eye with copious quantities of water.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If persistent irritation occurs, obtain medical attention.
- If swallowed : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

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

- Symptoms : Not considered to be an inhalation hazard under normal conditions of use.  
Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.
- Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance.
- No specific hazards under normal use conditions.

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Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.

No specific hazards under normal use conditions.  
Ingestion may result in nausea, vomiting and/or diarrhoea.

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

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

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

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

Specific hazards during fire-fighting : Carbon monoxide may be evolved if incomplete combustion occurs.  
Will float and can be reignited on surface water.  
The vapour is heavier than air, spreads along the ground and distant ignition is possible.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant Standards (e.g. Europe: EN469).

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : Clear fire area of all non-emergency personnel.  
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.

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Local authorities should be advised if significant spillages cannot be contained.

6.1.1 For non emergency personnel:

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. 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.

Stay upwind and keep out of low areas.

Be ready for fire or possible exposure.

6.1.2 For emergency responders:

Avoid contact with spilled or released material. Immediately remove all contaminated clothing. 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.

Stay upwind and keep out of low areas.

Be ready for fire or possible exposure.

### 6.2 Environmental precautions

Environmental precautions : Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.  
Use appropriate containment to avoid environmental contamination.  
Ventilate contaminated area thoroughly.

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

Methods for cleaning up : 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.  
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.

### 6.4 Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Technical measures : Avoid breathing of or direct contact with material. Only use in well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see Section 8 of this Safety Data Sheet.

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Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material.

Ensure that all local regulations regarding handling and storage facilities are followed.

- |                         |  |
|-------------------------|--|
| Advice on safe handling | : Avoid contact with skin, eyes and clothing.<br>Do not empty into drains.<br>Sudden Release of Pressure Hazard  |
| Product Transfer        | : Keep containers closed when not in use. Do not use compressed air for filling discharge or handling.           |
| Hygiene measures        | : Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use. |

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

- |   |  |
|---|--|
| Requirements for storage areas and containers | : Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.  |
| Storage class (TRGS 510)                      | : 10, Combustible liquids  |
| Further information on storage stability      | : Bulk storage tanks should be diked (bunded).<br>Vapours from tanks should not be released to atmosphere.<br>Breathing losses during storage should be controlled by a suitable vapour treatment system.<br>Nitrogen blanket recommended for large tanks (capacity 100 m <sup>3</sup> or higher).<br>Insulation (lagging) will minimize heat loss in areas of low ambient temperature.<br>Tanks should be fitted with heating coils in areas where ambient conditions can result in handling temperatures below the freezing point/pour point of the product. |
| Packaging material                            | : Suitable material: Stainless steel., Epoxy resins, Polyester.<br>Unsuitable material: Aluminum, Copper., Copper alloys.  |
| Container Advice                              | : Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.  |

### 7.3 Specific end use(s)

- |                 |   |
|-----------------|---|
| Specific use(s) | : Please refer to section 16 and/or the annexes for the registered uses under REACH.<br><br>Ensure that all local regulations regarding handling and storage facilities are followed. |
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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Biological occupational exposure limits

No biological limit allocated.

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

Remarks:	No DNEL value has been established.
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##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Remarks:	Exposure assessments have not been presented for the environment therefore PNEC values not required.	

#### 8.2 Exposure controls

##### Engineering measures

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:

Adequate ventilation to control airborne concentrations.

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

Eye washes and showers for emergency use.

##### 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

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

Skin and body protection : Skin protection is not ordinarily required beyond standard work clothes.  
It is good practice to wear chemical resistant gloves.  
Protective clothing approved to EU Standard EN14605.

Respiratory protection : If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.  
Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.  
If air-filtering respirators are suitable for conditions of use: Select a filter suitable for the combination of organic gases and vapours and particles meeting EN14387 and EN143 [Filter type A/P for use against certain organic gases and vapours with a boiling point >65°C (149°F) and for use against particles].

Thermal hazards : Not applicable



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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Physical state	:	Waxy solid at 20 °C.
Colour	:	white
Odour	:	mild
Odour Threshold	:	Data not available
Melting / freezing point	:	29 - 36 °C
Boiling point/boiling range	:	289 °C (1013,0 hPa)
Flammability		
Flammability (solid, gas)	:	Not classified as flammable but will burn.
Lower explosion limit and upper explosion limit / flammability limit		
Upper explosion limit / upper flammability limit	:	Data not available
Lower explosion limit / Lower flammability limit	:	Data not available
Flash point	:	157 °C Method: ASTM D93 (PMCC)
Auto-ignition temperature	:	Data not available
Decomposition temperature		
Decomposition temperature	:	Data not available
pH	:	Not applicable
Viscosity		
Viscosity, dynamic	:	14 mPa.s (40 °C) Method: ASTM D445  50 mPa.s (35 °C) Method: ASTM D445
Viscosity, kinematic	:	18 mm <sup>2</sup> /s (40 °C) Method: ASTM D445
Solubility(ies)		
Water solubility	:	ca. 0,2 mg/l negligible (25 °C)

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Partition coefficient: n-octanol/water	:	log Pow: 6 - 6,2
Vapour pressure	:	< 0,05 hPa (25 °C)
Relative density	:	0,824 (38 °C) Method: ASTM D4052
Density	:	823 kg/m <sup>3</sup> (40 °C) Method: ASTM D4052
Relative vapour density	:	7,5
Particle characteristics Particle size	:	Data not available

### 9.2 Other information

Explosive properties	:	Not applicable
Oxidizing properties	:	Data not available
Evaporation rate	:	Data not available
Conductivity	:	Electrical conductivity: > 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, This material is not expected to be a static accumulator.

Surface tension	:	Data not available
Molecular weight	:	218 - 224 g/mol

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable at normal ambient temperature and pressure.  
May oxidise in the presence of air.

### 10.2 Chemical stability

The product is chemically stable.  
Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	None known.
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### 10.4 Conditions to avoid

Conditions to avoid	:	Extremes of temperature and direct sunlight.
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### 10.5 Incompatible materials

Materials to avoid : Copper.  
Copper alloys.  
Strong oxidising agents.  
Aluminum

### 10.6 Hazardous decomposition products

None expected under normal use conditions.

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## SECTION 11: Toxicological information

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

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

#### Acute toxicity

##### Components:

##### Alcohols, C14-15-branched and linear:

Acute oral toxicity : Remarks: LD50 >5000 mg/kg  
Low toxicity

Acute inhalation toxicity : Remarks: Low toxicity if inhaled.  
Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: LD50 > 5000 mg/kg  
Low toxicity

#### Skin corrosion/irritation

##### Components:

##### Alcohols, C14-15-branched and linear:

Remarks : Not irritating to skin.

#### Serious eye damage/eye irritation

##### Components:

##### Alcohols, C14-15-branched and linear:

Remarks : Not irritating to eye.

#### Respiratory or skin sensitisation

##### Components:

##### Alcohols, C14-15-branched and linear:

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

### Germ cell mutagenicity

#### Components:

##### Alcohols, C14-15-branched and linear:

Genotoxicity in vivo : Remarks: Non mutagenic

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

### Carcinogenicity

#### Components:

##### Alcohols, C14-15-branched and linear:

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

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

Material	GHS/CLP Carcinogenicity Classification
Alcohols, C14-15-branched and linear	No carcinogenicity classification.

### Reproductive toxicity

#### Components:

##### Alcohols, C14-15-branched and linear:

Effects on fertility :  
Remarks: Data not available

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

### STOT - single exposure

#### Components:

##### Alcohols, C14-15-branched and linear:

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

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### STOT - repeated exposure

#### Components:

##### Alcohols, C14-15-branched and linear:

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

### Aspiration toxicity

#### Components:

##### Alcohols, C14-15-branched and linear:

Not an aspiration hazard., Based on available data, the classification criteria are not met.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

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

### Further information

#### Product:

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

#### Components:

##### Alcohols, C14-15-branched and linear:

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

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Alcohols, C14-15-branched and linear:

Toxicity to fish : Remarks: No toxicity at the limit of solubility

Toxicity to daphnia and other aquatic invertebrates : Remarks: No toxicity at the limit of solubility

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Toxicity to algae/aquatic plants : Remarks: LC/EC/IC50 < 1 mg/l

Toxicity to microorganisms :  
Remarks: Data not available

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

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

### 12.2 Persistence and degradability

#### Components:

##### **Alcohols, C14-15-branched and linear:**

Biodegradability : Remarks: Readily biodegradable.

### 12.3 Bioaccumulative potential

#### Components:

##### **Alcohols, C14-15-branched and linear:**

Bioaccumulation : Remarks: Has the potential to bioaccumulate.  
Log Kow > =4

### 12.4 Mobility in soil

#### Components:

##### **Alcohols, C14-15-branched and linear:**

Mobility : Remarks: Floats on water., Adsorbs to soil and has low mobility

### 12.5 Results of PBT and vPvB assessment

#### Components:

##### **Alcohols, C14-15-branched and linear:**

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

### 12.6 Endocrine disrupting properties

#### Product:

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

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### 12.7 Other adverse effects

#### Product:

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product	: Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.  Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.
Contaminated packaging	: Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residues may cause an explosion hazard. Do not puncture, cut, or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN	: 3082
ADR	: 3082
RID	: 3082
IMDG	: 3082
IATA	: 3082

### 14.2 UN proper shipping name

ADN	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C12-C15 ALCOHOL)
ADR	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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	(C12-C15 ALCOHOL)
<b>RID</b>	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C12-C15 ALCOHOL)
<b>IMDG</b>	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C12-C15 ALCOHOL)
<b>IATA</b>	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (C12-C15 ALCOHOL)

### 14.3 Transport hazard class(es)

<b>ADN</b>	: 9
<b>ADR</b>	: 9
<b>RID</b>	: 9
<b>IMDG</b>	: 9
<b>IATA</b>	: 9

### 14.4 Packing group

<b>ADN</b>	
Packing group	: III
Classification Code	: M6
Labels	: 9 (N2, F)
CDNI Inland Water Waste Agreement	: NST 8969 Chemicals

<b>ADR</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9

<b>RID</b>	
Packing group	: III
Classification Code	: M6
Hazard Identification Number	: 90
Labels	: 9

<b>IMDG</b>	
Packing group	: III
Labels	: 9

<b>IATA</b>	
Packing group	: III
Labels	: 9

### 14.5 Environmental hazards

<b>ADN</b>	
Environmentally hazardous	: yes

<b>ADR</b>	
Environmentally hazardous	: yes



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### 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

Pollution category	: Y
Ship type	: 2
Product name	: Alcohols (C13+)

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

Transport in bulk according to Annex II of Marpol and the IBC Code

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

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

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

Water hazard class (Germany)	: WGK 2 obviously hazardous to water
	Remarks: Code Number: 8061, Classification according to AwSV

### Other regulations:

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

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Product is subject to Störfallverordnung (12. BImSchV) based on Seveso III directive (2012/18/EU).

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

DSL	: Listed
IECSC	: Listed
KECI	: Listed
NZIoC	: Listed
PICCS	: Listed
TSCA	: Listed
TCSI	: Listed
AIIC	: Listed
ENCS	: 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

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 - Interna-

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tional 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; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Training advice : Provide adequate information, instruction and training for operators.

Other information : For Industry guidance and tools on REACH please visit the CEFIC website at <http://cefic.org/Industry-support>.  
The substance does not fulfill all screening criteria for persistence, 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.

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

### Identified Uses according to the Use Descriptor System

#### Uses - Worker

Title : Manufacture of substance  
- Industrial

#### Uses - Worker

Title : Use as an intermediate  
- Industrial

#### Uses - Worker

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

#### Uses - Worker

Title : Uses in Coatings  
- Industrial

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### 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 : Metal working fluids / rolling oils  
- Industrial

### Uses - Worker

Title : Metal working fluids / rolling oils  
- Professional

### Identified Uses according to the Use Descriptor System

#### Uses - Consumer

Title : Uses in Coatings  
- Consumer

#### Uses - Consumer

Title : Use in Cleaning Agents  
- Consumer

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

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### Exposure Scenario - Worker

<b>300000000622</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Manufacture of substance- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3, SU8, SU9 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 <b>Environmental Release Categories:</b> ERC1
<b>Scope of process</b>	Manufacture of the substance or use as a process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional Information	No exposure assessment presented for human health.	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Contributing Scenarios	Risk Management Measures	
Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Alcohol.		
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):		13,900
Maximum daily site tonnage (kg/day):		4,63E+04
Frequency and Duration of Use		
Continuous release.		
Emission Days (days/year):		300
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):		
Release fraction to wastewater from process (initial release prior to RMM):		
Release fraction to soil from process (initial release prior to RMM):		
Technical conditions and measures at process level (source) to prevent release		
Common practices vary across sites thus conservative process release estimates used.		
Technical onsite conditions and measures to reduce or limit discharges, air emis-		

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<b>sions and releases to soil</b>	
Risk from environmental exposure is driven by soil.	
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 (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	10.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
During manufacturing no waste of the substance is generated.	
<b>Conditions and measures related to external recovery of waste</b>	
During manufacturing no waste of the substance is generated.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>
Used EUSES model.

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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

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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
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### Exposure Scenario - Worker

<b>300000000623</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use as an intermediate- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3, SU8, SU9 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 8a, PROC 8b, PROC 15 <b>Environmental Release Categories:</b> ERC6a
<b>Scope of process</b>	Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional Information	No exposure assessment presented for human health.	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Contributing Scenarios	Risk Management Measures	
Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Alcohol.		
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):		1,870
Maximum daily site tonnage (kg/day):		6,233
Frequency and Duration of Use		
Continuous release.		
Emission Days (days/year):		300
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):		3,80E-05
Release fraction to wastewater from process (initial release prior to RMM):		0,007
Release fraction to soil from process (initial release prior to RMM):		
Technical conditions and measures at process level (source) to prevent release		
Common practices vary across sites thus conservative process re-lease estimates used.		
Technical onsite conditions and measures to reduce or limit discharges, air emis-		



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<b>sions and releases to soil</b>	
Risk from environmental exposure is driven by marine water.	
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 (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m3/d)	10.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations. This substance is consumed during use and no waste of substance is generated.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations. This substance is consumed during use and no waste of substance is generated.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 4.2 -Environment</b>	
Guidance is based on assumed operating conditions which may not be applicable to all	

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sites; thus, scaling may be necessary to define appropriate site-specific risk management measures.
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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.
---

If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
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### Exposure Scenario - Worker

**300000000624**

SECTION 1	EXPOSURE SCENARIO TITLE
Title	Formulation & (re)packing of substances and mixtures- Industrial
Use Descriptor	<b>Sector of Use:</b> SU3, SU10 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 14, PROC 15 <b>Environmental Release Categories:</b> ERC2
Scope of process	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for human health.
Section 2.1	Control of Worker Exposure
Product Characteristics	
Contributing Scenarios	Risk Management Measures
Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Alcohol.	
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):	
Frequency and Duration of Use	
Continuous release.	
Emission Days (days/year):	
Environmental factors not influenced by risk management	
Local freshwater dilution factor:	
Local marine water dilution factor:	
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 soil from process (initial release prior to RMM):	
Technical conditions and measures at process level (source) to prevent release	
Common practices vary across sites thus conservative process release estimates used.	

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<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by marine water.	
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 (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	10.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>
Used EUSES model.

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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

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Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination.
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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
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### Exposure Scenario - Worker

**300000000625**

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

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for human health.
Section 2.1	Control of Worker Exposure
Product Characteristics	
Contributing Scenarios	Risk Management Measures
Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Alcohol.	
Readily biodegradable.	
Amounts Used	
Fraction of EU tonnage used in region:	7,500
Regional use tonnage (tonnes/year):	
Fraction of Regional tonnage used locally:	
Annual site tonnage (tonnes/year):	0,029
Maximum daily site tonnage (kg/day):	0,1
Frequency and Duration of Use	
Continuous release.	
Emission Days (days/year):	300
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):	0,03
Release fraction to wastewater from process (initial release prior to RMM):	0,03
Release fraction to soil from process (initial release prior to RMM):	
Technical conditions and measures at process level (source) to prevent release	
Common practices vary across sites thus conservative process re-	

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lease estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by marine water.	
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	2.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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

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gies, either alone or in combination.
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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
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### Exposure Scenario - Worker

**300000000626**

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

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for human health.
Section 2.1	Control of Worker Exposure
Product Characteristics	
Contributing Scenarios	Risk Management Measures
Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Alcohol.	
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):	
Frequency and Duration of Use	
Continuous release.	
Emission Days (days/year):	
Environmental factors not influenced by risk management	
Local freshwater dilution factor:	
Local marine water dilution factor:	
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 soil from process (initial release prior to RMM):	
Technical conditions and measures at process level (source) to prevent release	
Common practices vary across sites thus conservative process re-	

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lease estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by marine water.	
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	2.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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

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gies, either alone or in combination.
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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
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### Exposure Scenario - Worker

<b>300000000628</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Cleaning Agents- Industrial
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU3 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 4, PROC 7, PROC 8a, PROC 8b, PROC 10, PROC 13 <b>Environmental Release Categories:</b> ERC4
<b>Scope of process</b>	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional Information	No exposure assessment presented for human health.	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Contributing Scenarios	Risk Management Measures	
Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Alcohol.		
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):		0,96
Maximum daily site tonnage (kg/day):		4,36
Frequency and Duration of Use		
Continuous release.		
Emission Days (days/year):		220
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
Release fraction to wastewater from process (initial release prior to RMM):		1
Release fraction to soil from process (initial release prior to RMM):		
Technical conditions and measures at process level (source) to prevent release		
Common practices vary across sites thus conservative process release estimates used.		

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<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by marine water.	
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	2.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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

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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
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### Exposure Scenario - Worker

**300000000629**

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

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for human health.
Section 2.1	Control of Worker Exposure
Product Characteristics	
Contributing Scenarios	Risk Management Measures
Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Alcohol.	
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):	
Frequency and Duration of Use	
Continuous release.	
Emission Days (days/year):	
Environmental factors not influenced by risk management	
Local freshwater dilution factor:	
Local marine water dilution factor:	
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 soil from process (initial release prior to RMM):	
Technical conditions and measures at process level (source) to prevent release	
Common practices vary across sites thus conservative process release estimates used.	
Technical onsite conditions and measures to reduce or limit discharges, air emis-	

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<b>sions and releases to soil</b>	
Risk from environmental exposure is driven by freshwater.	
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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



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or in combination.
If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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### Exposure Scenario - Worker

**300000000632**

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

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES
Additional Information	No exposure assessment presented for human health.
Section 2.1	Control of Worker Exposure
Product Characteristics	
Contributing Scenarios	Risk Management Measures
Section 2.2	Control of Environmental Exposure
Substance is complex UVCB.	
Alcohol.	
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):	
Frequency and Duration of Use	
Continuous release.	
Emission Days (days/year):	
Environmental factors not influenced by risk management	
Local freshwater dilution factor:	
Local marine water dilution factor:	
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 soil from process (initial release prior to RMM):	
Technical conditions and measures at process level (source) to prevent release	
Common practices vary across sites thus conservative process re-	

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lease estimates used.	
<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by marine water.	
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	2.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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

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gies, either alone or in combination.
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.

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### Exposure Scenario - Worker

<b>300000000633</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Metal working fluids / rolling oils- Professional
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU22 <b>Process Categories:</b> PROC 1, PROC 2, PROC 3, PROC 5, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 17 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Covers the use in formulated MWFs including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils.

SECTION 2	OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES	
Additional Information	No exposure assessment presented for human health.	
Section 2.1	Control of Worker Exposure	
Product Characteristics		
Contributing Scenarios	Risk Management Measures	
Section 2.2	Control of Environmental Exposure	
Substance is complex UVCB.		
Alcohol.		
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):		7,5
Maximum daily site tonnage (kg/day):		25
Frequency and Duration of Use		
Continuous release.		
Emission Days (days/year):		365
Environmental factors not influenced by risk management		
Local freshwater dilution factor:		10
Local marine water dilution factor:		100
Other Operational Conditions affecting Environmental Exposure		
Release fraction to air from process (initial release prior to RMM):		9,60E-03
Release fraction to wastewater from process (initial release prior to RMM):		2,08E-07
Release fraction to soil from process (initial release prior to RMM):		
Technical conditions and measures at process level (source) to prevent release		
Common practices vary across sites thus conservative process release estimates used.		

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<b>Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil</b>	
Risk from environmental exposure is driven by marine water.	
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	
Treat air emission to provide a typical removal efficiency of (%)	0
Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of $\geq$ (%)	99
If discharging to domestic sewage treatment plant, no secondary wastewater treatment required.	0
<b>Organisational measures to prevent/limit release from site</b>	
Sludge should be incinerated, contained or reclaimed.	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Estimated substance removal from wastewater via domestic sewage treatment (%)	99
Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%)	99
Assumed domestic sewage treatment plant flow (m <sup>3</sup> /d)	2.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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

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Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination.
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If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required.
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### Exposure Scenario - Consumer

<b>300000001085</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Uses in Coatings - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU21 <b>Product Categories:</b> PC1, PC4, PC8 (excipient only), PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Covers the use in coatings (paints, inks, adhesives, etc) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for human health.
<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Alcohol.	
Readily biodegradable.	
<b>Amounts Used</b>	
Fraction of EU tonnage used in region:	
Regional use tonnage (tonnes/year):	
Fraction of Regional tonnage used locally:	
Annual site tonnage (tonnes/year):	0,87
Maximum daily site tonnage (kg/day):	2,9
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	300
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	10
Local marine water dilution factor:	100
<b>Other Operational Conditions affecting Environmental Exposure</b>	
Release fraction to air from process (initial release prior to RMM):	0,01
Release fraction to wastewater from process (initial release prior to RMM):	0,01
Release fraction to soil from process (initial release prior to RMM):	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Risk from environmental exposure is driven by marine water.	
Estimated substance removal from wastewater via domestic sewage	99



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treatment (%)	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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

# SAFETY DATA SHEET

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

## NEODOL 45

Version 5.0      Revision Date: 29.04.2024      SDS Number: 800001001064      Date of last issue: 17.11.2023  
Print Date 06.05.2024

### Exposure Scenario - Consumer

<b>300000001086</b>	
<b>SECTION 1</b>	<b>EXPOSURE SCENARIO TITLE</b>
<b>Title</b>	Use in Cleaning Agents - Consumer
<b>Use Descriptor</b>	<b>Sector of Use:</b> SU21 <b>Product Categories:</b> PC3, PC4, PC8 (excipient only), PC9a, PC9b, PC9c, PC24, PC35, PC38 <b>Environmental Release Categories:</b> ERC8a, ERC8d
<b>Scope of process</b>	Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de-icers, lubricants and air care products.

<b>SECTION 2</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>
<b>Additional Information</b>	No exposure assessment presented for human health.
<b>Section 2.1</b>	<b>Control of Consumer Exposure</b>
<b>Product Characteristics</b>	
<b>Product Categories</b>	<b>OPERATIONAL CONDITIONS AND RISK MANAGEMENT MEASURES</b>

<b>Section 2.2</b>	<b>Control of Environmental Exposure</b>
Substance is complex UVCB.	
Alcohol.	
Readily biodegradable.	
<b>Amounts Used</b>	
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):	
<b>Frequency and Duration of Use</b>	
Continuous release.	
Emission Days (days/year):	
<b>Environmental factors not influenced by risk management</b>	
Local freshwater dilution factor:	
Local marine water dilution factor:	
<b>Other Operational Conditions affecting Environmental Exposure</b>	
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 soil from process (initial release prior to RMM):	
<b>Conditions and Measures related to municipal sewage treatment plant</b>	
Risk from environmental exposure is driven by freshwater.	
Estimated substance removal from wastewater via domestic sewage	

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treatment (%)	
Assumed domestic sewage treatment plant flow (m3/d)	2.000
Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal (kg/d)	
<b>Conditions and Measures related to external treatment of waste for disposal</b>	
External treatment and disposal of waste should comply with applicable local and/or regional regulations.	
<b>Conditions and measures related to external recovery of waste</b>	
External recovery and recycling of waste should comply with applicable local and/or regional regulations.	

<b>SECTION 3</b>	<b>EXPOSURE ESTIMATION</b>
<b>Section 3.1 - Health</b>	
No exposure assessment presented for human health.	

<b>Section 3.2 -Environment</b>	
Used EUSES model.	

<b>SECTION 4</b>	<b>GUIDANCE TO CHECK COMPLIANCE WITH THE EXPOSURE SCENARIO</b>
<b>Section 4.1 - Health</b>	
No exposure assessment presented for human health.	

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