

# SAFETY DATA SHEET

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

## NEODOL 135

|                |                              |                             |   |
|----------------|------------------------------|-----------------------------|---|
| Version<br>2.0 | Revision Date:<br>23.01.2025 | SDS Number:<br>800001012062 | Date of last issue: 19.12.2024<br>Print Date 30.01.2025 |
|----------------|------------------------------|-----------------------------|---|

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

#### 1.1 Product identifier

|                                 |                       |
|---------------------------------|-----------------------|
| Trade name                      | : NEODOL 135          |
| Product code                    | : V2483, V2501        |
| Unique Formula Identifier (UFI) | : 506P-URTN-R50A-J93K |

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

|                               |  |
|-------------------------------|--|
| Use of the Sub-stance/Mixture | : Feedstock for detergent derivative manufacture.  |
| Uses advised against          | : This product must not be used in applications other than those listed in Section 1 without first seeking the advice of the supplier.<br>This product must not be used in applications other than the above without first seeking the advice of the supplier. |

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

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

|                             |                                      |
|-----------------------------|--------------------------------------|
| Skin irritation, Category 2 | H315: Causes skin irritation.        |
| Eye irritation, Category 2  | H319: Causes serious eye irritation. |

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Short-term (acute) aquatic hazard, Category 1

H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1

H410: Very toxic to aquatic life with long lasting effects.

### 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:  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
ENVIRONMENTAL HAZARDS:  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

#### Prevention:

P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.?

#### Response:

P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Storage:

No precautionary phrases.

#### Disposal:

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

### 2.3 Other hazards

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

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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.

Repeated exposure may cause skin dryness or cracking.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name                     | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification   | Concentration<br>(% w/w) |
|-----------------------------------|---|--|--------------------------|
| tridecan-1-ol                     | 112-70-9<br>203-998-8<br>01-2120117440-72             | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 1 | >= 35 - <= 50            |
| Pentadecanol, branched and linear | 90480-71-0<br>291-807-9<br>01-2119488021-45           | Aquatic Chronic 1;<br>H410   | >= 35 - <= 50            |
| Undecan-1-ol                      | 112-42-5<br>203-970-5                                 | Eye Irrit. 2; H319<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411<br>EUH066<br><br>M-Factor (Acute<br>aquatic toxicity): 1              | >= 10 - <= 18            |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice : Not expected to be a health hazard when used under normal conditions.

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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                 | : No treatment necessary under normal conditions of use.<br>If symptoms persist, obtain medical advice.   |
| 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     | : Immediately flush eye(s) with plenty of water.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>Transport to the nearest medical facility for additional treatment.  |
| 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.<br>Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.<br><br>Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.<br><br>Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.<br><br>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.<br>Treat symptomatically.<br>IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT! |
|-----------|---|

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## 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. |
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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.

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## SECTION 6: Accidental release measures

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

Personal precautions :  
Observe all relevant local and international regulations.  
Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.  
Local authorities should be advised if significant spillages cannot be contained.  
6.1.1 For non emergency personnel:  
Avoid contact with 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.

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### 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.

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## 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.<br>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.<br>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.  |

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

- Requirements for storage areas and containers : Refer to section 15 for any additional specific legislation 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).  
Vapours from tanks should not be released to atmosphere.  
Breathing losses during storage should be controlled by a suitable vapour treatment system.  
Nitrogen blanket recommended for large tanks (capacity 100 m<sup>3</sup> or higher).  
Insulation (lagging) will minimize heat loss in areas of low ambient temperature.  
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.  
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.  
Not applicable.
- Ensure that all local regulations regarding handling and storage facilities are followed.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Biological occupational exposure limits

No biological limit allocated.

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

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

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### 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

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 com-



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position 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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : Semi-solid at room temperature.
- Colour : colourless
- Odour : mild
- Odour Threshold : Data not available
- Melting / freezing point : ca. 24 - 36 °C
- pour point : ca. 24 °C

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Boiling point/boiling range : 260 - 293 °C

### Flammability

Flammability (solid, gas) : Data not available

### 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 : 143 °C

Auto-ignition temperature : Data not available

### Decomposition temperature

Decomposition temperature : Data not available

pH : Data not available

### Viscosity

Viscosity, dynamic : 12,4 mPa.s (40 °C)  
Method: ASTM D445

50 mPa.s (35 °C)  
Method: ASTM D445

Viscosity, kinematic : 15 mm<sup>2</sup>/s (40 °C)  
Method: ASTM D445

### Solubility(ies)

Water solubility : ca. 20 mg/l (25 °C)

Solubility in other solvents : Data not available

Partition coefficient: n-octanol/water : log Pow: ca. 4,72 - 6,2

Vapour pressure : < 0,01 hPa (25 °C)

Relative density : 0,83 (77 °F)  
Method: ASTM D4052

Density : 822 kg/m<sup>3</sup> (40 °C)  
Method: ASTM D4052

Relative vapour density : Data not available

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|   |   |                    |
|---|---|--------------------|
| Particle characteristics<br>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 | : | 203 - 210 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. |
|---------------------|---|-------------|

### 10.4 Conditions to avoid

|                     |   |  |
|---------------------|---|--|
| Conditions to avoid | : | Extremes of temperature and direct sunlight. |
|---------------------|---|--|

### 10.5 Incompatible materials

|                    |   |   |
|--------------------|---|---|
| Materials to avoid | : | Copper.<br>Copper alloys.<br>Strong oxidising agents.<br>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 may occur via inhalation, ingestion, skin absorption, exposure skin or eye contact, and accidental ingestion.

##### Acute toxicity

###### Product:

|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): 4.750 mg/kg ><br>Remarks: Low toxicity   |
| Acute inhalation toxicity | : Remarks: Low toxicity if inhaled.<br>Based on available data, the classification criteria are not met. |
| Acute dermal toxicity     | : LD50 (Rabbit): 5.000 mg/kg><br>Remarks: Low toxicity   |

###### Components:

###### **tridecan-1-ol:**

|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): > 4750 mg/kg<br>Remarks: Low toxicity  |
| Acute inhalation toxicity | : Remarks: Low toxicity if inhaled.<br>Based on available data, the classification criteria are not met. |
| Acute dermal toxicity     | : LD50 (Rabbit): > 5000 mg/kg<br>Remarks: Low toxicity   |

###### **Pentadecanol, branched and linear:**

|                           |                              |
|---------------------------|------------------------------|
| Acute oral toxicity       | : Remarks: no data available |
| Acute inhalation toxicity | : Remarks: no data available |
| Acute dermal toxicity     | : Remarks: no data available |

###### **Undecan-1-ol:**

|                           |  |
|---------------------------|--|
| Acute oral toxicity       | : LD50 (Rat): > 5000 mg/kg<br>Remarks: Low toxicity  |
| Acute inhalation toxicity | : Remarks: Low toxicity<br>Based on available data, the classification criteria are not met. |
| Acute dermal toxicity     | : LD50 (Rabbit): > 5000 mg/kg<br>Remarks: Low toxicity                                       |

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### Skin corrosion/irritation

#### Product:

Remarks : Causes skin irritation.

#### Components:

##### **tridecan-1-ol:**

Remarks : Causes skin irritation.

##### **Pentadecanol, branched and linear:**

Remarks : no data available

##### **Undecan-1-ol:**

Remarks : Causes mild skin irritation.

### Serious eye damage/eye irritation

#### Product:

Remarks : Causes serious eye irritation.

#### Components:

##### **tridecan-1-ol:**

Remarks : Causes serious eye irritation.

##### **Pentadecanol, branched and linear:**

Remarks : no data available

##### **Undecan-1-ol:**

Remarks : Causes serious eye irritation.

### Respiratory or skin sensitisation

#### Product:

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

#### Components:

##### **tridecan-1-ol:**

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

##### **Pentadecanol, branched and linear:**

Remarks : no data available

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### Undecan-1-ol:

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

### Germ cell mutagenicity

#### Product:

Genotoxicity in vivo : Remarks: Non mutagenic

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

#### Components:

##### tridecan-1-ol:

Genotoxicity in vivo : Remarks: Non mutagenic

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

##### Pentadecanol, branched and linear:

Genotoxicity in vivo : Remarks: no data available

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

### Undecan-1-ol:

Genotoxicity in vivo : Remarks: No evidence of mutagenic activity.

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

### Carcinogenicity

#### Product:

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.

#### Components:

##### tridecan-1-ol:

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

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

### **Pentadecanol, branched and linear:**

Remarks : no data available

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

### **Undecan-1-ol:**

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 |
|-----------------------------------|--|
| tridecan-1-ol                     | No carcinogenicity classification.     |
| Pentadecanol, branched and linear | No carcinogenicity classification.     |
| Undecan-1-ol                      | No carcinogenicity classification.     |

## **Reproductive toxicity**

### **Product:**

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

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

### **Components:**

#### **tridecan-1-ol:**

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

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

### **Pentadecanol, branched and linear:**

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Effects on fertility :  
Remarks: Data not available

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

### **Undecan-1-ol:**

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

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

### **STOT - single exposure**

#### **Product:**

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

#### **Components:**

##### **tridecan-1-ol:**

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

##### **Pentadecanol, branched and linear:**

Remarks : no data available

##### **Undecan-1-ol:**

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

### **STOT - repeated exposure**

#### **Product:**

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

#### **Components:**

##### **tridecan-1-ol:**

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

##### **Pentadecanol, branched and linear:**

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

##### **Undecan-1-ol:**

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



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### Aspiration toxicity

#### Product:

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

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

#### Components:

##### **tridecan-1-ol:**

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

##### **Pentadecanol, branched and linear:**

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

##### **Undecan-1-ol:**

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

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

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

### Further information

#### Product:

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

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

#### Components:

##### **tridecan-1-ol:**

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

##### **Pentadecanol, branched and linear:**

Remarks : Classifications by other authorities under varying regulatory

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frameworks may exist.

### Undecan-1-ol:

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

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

|  |   |  |
|--|---|--|
| Toxicity to fish   | : | Remarks: Toxic<br>LC/EC/IC50 >1 - <=10 mg/l              |
| Toxicity to daphnia and other aquatic invertebrates                    | : | Remarks: Very toxic.<br>LC/EC/IC50 < 1 mg/l              |
| Toxicity to algae/aquatic plants                                       | : | Remarks: Very toxic.<br>LC/EC/IC50 < 1 mg/l              |
| Toxicity to fish (Chronic toxicity)                                    | : | Remarks: NOEC/NOEL > 0.01 - <=0.1 mg/l                   |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | Remarks: NOEC/NOEL > 0.1 - <=1.0 mg/l                    |
| Toxicity to microorganisms   | : | Remarks: Practically non toxic:<br>LC/EC/IC50 > 100 mg/l |

#### Components:

##### tridecan-1-ol:

|   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | Remarks: Toxic<br>LC/EC/IC50 >1 - <=10 mg/l              |
| Toxicity to daphnia and other aquatic invertebrates | : | Remarks: Very toxic.<br>LC/EC/IC50 < 1 mg/l              |
| Toxicity to algae/aquatic plants                    | : | Remarks: Very toxic.<br>LC/EC/IC50 < 1 mg/l              |
| M-Factor (Acute aquatic toxicity)                   | : | 1  |
| Toxicity to microorganisms                          | : | Remarks: Practically non toxic:<br>LC/EC/IC50 > 100 mg/l |

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Toxicity to fish (Chronic toxicity) : Remarks: NOEC/NOEL > 0.01 - <=0.1 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: NOEC/NOEL > 0.1 - <=1.0 mg/l

### Undecan-1-ol:

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

Toxicity to daphnia and other aquatic invertebrates : Remarks: Very toxic.  
LC/EC/IC50 < 1 mg/l

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

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms :  
Remarks: LC/EC/IC50 > 100 mg/l  
Practically non toxic:  
Based on available data, the classification criteria are not met.

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: NOEC/NOEL > 0.01 - <=0.1 mg/l

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: Taking into consideration the properties of several components, the product is estimated to be biodegradable according to OECD classification.

Remarks: Readily biodegradable.

### Components:

#### tridecan-1-ol:

Biodegradability : Remarks: Readily biodegradable.

#### Undecan-1-ol:

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

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### 12.3 Bioaccumulative potential

#### **Product:**

Bioaccumulation : Remarks: Based on data from similar materials

Remarks: Bioaccumulation is unlikely to occur due to metabolism and excretion.

#### **Components:**

##### **tridecan-1-ol:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely to occur due to metabolism and excretion.

##### **Undecan-1-ol:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely to occur due to metabolism and excretion.

### 12.4 Mobility in soil

#### **Product:**

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

Remarks: Adsorbs to soil and has low mobility

#### **Components:**

##### **tridecan-1-ol:**

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

##### **Undecan-1-ol:**

Mobility : Remarks: Floats on water., If product enters soil, it will be highly mobile and may contaminate groundwater.

### 12.5 Results of PBT and vPvB assessment

#### **Product:**

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

#### **Components:**

##### **tridecan-1-ol:**

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

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ered to be PBT or vPvB..

### Undecan-1-ol:

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

## 12.6 Endocrine disrupting properties

### Product:

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

## 12.7 Other adverse effects

no data available

## 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

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|             |   |      |
|-------------|---|------|
| <b>ADR</b>  | : | 3082 |
| <b>RID</b>  | : | 3082 |
| <b>IMDG</b> | : | 3082 |
| <b>IATA</b> | : | 3082 |

### 14.2 UN proper shipping name

|             |   |  |
|-------------|---|--|
| <b>ADN</b>  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Alcohols C14-15, 1-Undecanol) |
| <b>ADR</b>  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Alcohols C14-15, 1-Undecanol) |
| <b>RID</b>  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Alcohols C14-15, 1-Undecanol) |
| <b>IMDG</b> | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Alcohols C14-15, 1-Undecanol) |
| <b>IATA</b> | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,<br>N.O.S.<br>(Alcohols C14-15, 1-Undecanol) |

### 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 (N1, F) |
| <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       |

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Labels : 9

### IATA

Packing group : III

Labels : 9

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

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

### 14.7 Maritime transport in bulk according to IMO instruments

|                    |   |
|--------------------|---|
| Pollution category | : Y                                     |
| Ship type          | : 2                                     |
| Product name       | : NEODOL 135 (contains Undecyl Alcohol) |

**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

Water hazard class (Germany) : WGK 3 highly hazardous to water  
Remarks: Classification according to AwSV

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### Other regulations:

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

Technische Anleitung Luft: Product not listed by name. Observe section 5.2.5 in connection with section 5.2.6

Product is NOT subject to Störfallverordnung (12. BImSchV) based on Seveso III directive (2012/18/EU).

Product is subject to Betriebs-Sicherheits-Verordnung (BetrSichV).

Compliance with paragraph 22 of Youth Employment Law.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

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

AIIC : Listed

DSL : Listed

IECSC : Listed

ENCS : Listed

TSCA : Listed

EINECS : Listed

KECI : Listed

### 15.2 Chemical safety assessment

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

---

## SECTION 16: Other information

### Full text of H-Statements

|        |   |
|--------|---|
| EUH066 | : Repeated exposure may cause skin dryness or cracking. |
| H315   | : Causes skin irritation.                               |
| H319   | : Causes serious eye irritation.                        |
| H400   | : Very toxic to aquatic life.                           |
| H410   | : Very toxic to aquatic life with long lasting effects. |
| H411   | : Toxic to aquatic life with long lasting effects.      |

### Full text of other abbreviations

|                 |                                      |
|-----------------|--------------------------------------|
| Aquatic Acute   | : Short-term (acute) aquatic hazard  |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Irrit.      | : Eye irritation                     |
| Skin Irrit.     | : Skin irritation                    |



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

### Further information

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

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

There has been a decrease in the Health Hazard classification of this product in section 2.

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).

### Classification of the mixture:

Skin Irrit. 2 H315

### Classification procedure:

Expert judgement and weight of evidence determination.

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|                   |      |  |
|-------------------|------|--|
| Eye Irrit. 2      | H319 |  |
| Aquatic Acute 1   | H400 | Expert judgement and weight of evidence determination. |
| Aquatic Chronic 1 | H410 | Expert judgement and weight of evidence determination. |

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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