## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NEODOL 135

Product code : V2483, V2501

### Manufacturer or supplier's details

Supplier :

SHELL EASTERN CHEMICALS (S)

A REGISTERED BUSINESS OF SHELL EASTERN

TRADING (PTE) LTD (UEN:198902087C)

9 North Buona Vista Drive, #07-01

The Metropolis Tower 1 Singapore 138588

Singapore

Telephone : +65 6384 8269 Telefax : +65 6384 8454

Contact for Safety Data

Emergency telephone

Sheet

: +800 2537 8747 ( ALERT SGS- toll Free) or +65 6542 9595

number (ALERT SGS)

#### Recommended use of the chemical and restrictions on use

Recommended use

Feedstock for detergent derivative manufacture.

Restrictions on use : This product must not be used in applications other than those

listed in Section 1 without first seeking the advice of the

supplier.

This product must not be used in applications other than the

above without first seeking the advice of the supplier.

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.

#### 2. HAZARDS IDENTIFICATION

#### **GHS Classification**

Skin irritation : Category 2
Eye irritation : Category 2
Short-term (acute) aquatic : Category 1

hazard

Long-term (chronic) aquatic : Category 1

hazard

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

**GHS** label elements

Hazard pictograms





Signal word : Warning

Hazard statements : PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS 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.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/

attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to appropriate waste

site or reclaimer in accordance with local and national

regulations.

Other hazards which do not result in classification

Repeated exposure may cause skin dryness or cracking.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

3.2 Mixtures

### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
tridecan-1-ol	112-70-9	Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 35 - <= 50
Pentadecanol, branched and linear	90480-71-0	Aquatic Chronic1; H410	>= 35 - <= 50
Undecan-1-ol	112-42-5	Skin Irrit.3; H316 Eye Irrit.2A; H319 Asp. Tox.2; H305 Aquatic Acute1; H400 Aquatic Chronic2; H411	>= 10 - <= 18

For explanation of abbreviations see section 16.

### 4. FIRST-AID MEASURES

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

conditions.

If inhaled : No treatment necessary under normal conditions of use.

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.

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

rinsing.

Transport to the nearest medical facility for additional

treatment.

If swallowed : If swallowed, do not induce vomiting: transport to nearest

medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing.

## **NEODOL 135**

methods

Special protective equipment

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025 Most important symptoms : Not considered to be an inhalation hazard under normal and effects, both acute and conditions of use. delayed Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat. coughing, and/or difficulty breathing. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 101° F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. 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. Notes to physician Call a doctor or poison control center for guidance. Treat symptomatically. IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT! Potential for chemical pneumonitis. 5. FIRE-FIGHTING MEASURES 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 : Do not use water in a jet. media Specific hazards during Carbon monoxide may be evolved if incomplete combustion firefighting 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. Specific extinguishing Standard procedure for chemical fires.

4 / 22 800001012062

Clear fire area of all non-emergency personnel. Keep adjacent containers cool by spraying with water.

Proper protective equipment including chemical resistant

## **NEODOL 135**

 Version 2.0
 Revision Date 23.01.2025
 Print Date 30.01.2025

for firefighters

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).

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures .

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.

: 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.

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.

Methods and materials for containment and 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.

Additional advice : 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.

#### 7. HANDLING AND STORAGE

General Precautions : 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

# **NEODOL 135**

/ersion 2.0	Revision Date 23.01.2025	Print Date 30.01.2025
	Section 8 of this Safety Data Sheet. Use the information in this data sheet assessment of local circumstances appropriate controls for safe handlin this material. Ensure that all local regulations regastorage facilities are followed.	to help determine eg, storage and disposal of
Advice on safe handling	<ul> <li>Avoid contact with skin, eyes and cle Do not empty into drains.</li> <li>Sudden Release of Pressure Hazare</li> </ul>	_
Avoidance of contact	<ul><li>Copper.</li><li>Copper alloys.</li><li>Strong oxidising agents.</li><li>Aluminum</li></ul>	
Product Transfer	: Keep containers closed when not in compressed air for filling discharge	
Storage		
Conditions for safe storage	<ul> <li>Refer to section 15 for any additional covering the packaging and storage</li> </ul>	
Other data	<ul> <li>Bulk storage tanks should be diked Vapours from tanks should not be re Breathing losses during storage sho suitable vapour treatment system. Nitrogen blanket recommended for I m3 or higher).</li> <li>Insulation (lagging) will minimize he ambient temperature.</li> <li>Tanks should be fitted with heating ambient conditions can result in han the freezing point/pour point of the present the storage of the point of the present and the storage of the point of the present and the storage of the</li></ul>	eleased to atmosphere. Fould be controlled by a large tanks (capacity 100 at loss in areas of low coils in areas where ddling temperatures below
Packaging material	: Suitable material: Stainless steel., E Unsuitable material: Aluminum, Cop	
Container Advice	: Containers, even those that have be explosive vapours. Do not cut, drill, similar operations on or near contain	grind, weld or perform
Specific use(s)	: Not applicable	
	Ensure that all local regulations regastorage facilities are followed.	arding handling and

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

## Components with workplace control parameters

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

Contains no substances with occupational exposure limit values.

#### Biological occupational exposure limits

No biological limit allocated.

#### **Monitoring Methods**

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

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

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

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

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

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

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

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

#### **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.

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

#### Personal protective equipment

#### **Protective measures**

Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

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 [Type A/Type P boiling point >65°C

(149°F)].

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 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.

Eye protection

: If material is handled such that it could be splashed into eyes, protective eyewear 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.

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

Thermal hazards : Not applicable

Hygiene measures : Wash hands before eating, drinking, smoking and using the

toilet.

Launder contaminated clothing before re-use.

**Environmental exposure controls** 

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

Minimise release to the environment. An environmental assessment must be made to ensure compliance with local

environmental legislation.

Information on accidental release measures are to be found in

section 6.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Semi-solid at room temperature.

Colour colourless

Odour : mild

Odour Threshold : Data not available рΗ : Data not available

Melting / freezing point : ca. 24 - 36 °C / 75 - 97 °F

pour point ca. 24 °C / 75 °F

Boiling point/boiling range : 260 - 293 °C / 500 - 559 °F

: 143 °C / 289 °F Flash point

Evaporation rate : Data not available Flammability (solid, gas) : Data not available

: Data not available Upper explosion limit Lower explosion limit : Data not available

: < 0.01 hPa (25 °C / 77 °F) Vapour pressure

Relative vapour density : Data not available : 0.83 (25 °C / 77 °F) Relative density

Method: ASTM D4052

Density : 822 kg/m3 (40 °C / 104 °F)

Method: ASTM D4052

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

Solubility(ies)

Water solubility : ca. 20 mg/l (25 °C / 77 °F)

Solubility in other solvents : Data not available

Partition coefficient: n-

octanol/water

: log Pow: ca. 4.72 - 6.2

Auto-ignition temperature : Data not available

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : 12.4 mPa.s (40 °C / 104 °F)

Method: ASTM D445

Viscosity, dynamic 50 mPa.s (35 °C / 95 °F)

Method: ASTM D445

Viscosity, kinematic : 15 mm2/s (40 °C / 104 °F)

Method: ASTM D445

Particle characteristics

Particle size : Data not available

Explosive properties : Not applicable

Oxidizing properties : Data not available

Surface tension : Data not available

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.

Molecular weight : 203 - 210 g/mol

### 10. STABILITY AND REACTIVITY

Reactivity : Stable at normal ambient temperature and pressure., May

oxidise in the presence of air.

Chemical stability : The product is chemically stable. Stable under normal

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

conditions.

Possibility of hazardous

reactions

: None known.

Conditions to avoid

: Extremes of temperature and direct sunlight.

Incompatible materials : Copper.

Copper alloys.

Strong oxidising agents.

Aluminum

Hazardous decomposition

products

: None expected under normal use conditions.

#### 11. TOXICOLOGICAL INFORMATION

Basis for assessment : Information given is based on product testing, and/or similar

products, and/or components.Information given is based on product testing, and/or similar products, and/or components.

Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for

individual component(s).

Information on likely routes of

exposure

Exposure may occur via inhalation, ingestion, skin absorption,

skin or eye contact, and accidental ingestion.

### **Acute toxicity**

**Product:** 

Acute oral toxicity : LD50 Rat: 4,750 mg/kg>

Remarks: Low toxicity

Acute inhalation toxicity : Remarks: Low toxicity if inhaled.

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

Acute dermal toxicity : LD50 Rabbit: 5,000 mg/kg>

Remarks: Low toxicity

#### **Components:**

tridecan-1-ol:

Acute oral toxicity : LD50 Rat: > 4750 mg/kg

Remarks: Low toxicity

Acute inhalation toxicity : Remarks: Low toxicity if inhaled.

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

Acute dermal toxicity : LD50 Rabbit: > 5000 mg/kg

Remarks: Low toxicity

#### Pentadecanol, branched and linear:

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

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

Remarks: Low toxicity

Acute inhalation toxicity : Remarks: Low toxicity

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

Acute dermal toxicity : LD50 Rabbit: > 5000 mg/kg

Remarks: Low toxicity

#### 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.

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025

Print Date 30.01.2025

#### 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

### Undecan-1-ol:

Remarks: Not a sensitiser.

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

#### Germ cell mutagenicity

## **Product:**

: Remarks: Non mutagenic

#### **Components:**

tridecan-1-ol:

: Remarks: Non mutagenic

#### Pentadecanol, branched and linear:

: Remarks: no data available

Undecan-1-ol:

: Remarks: No evidence of mutagenic activity.

## Carcinogenicity

## **Product:**

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

#### **Components:**

#### tridecan-1-ol:

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

#### Pentadecanol, branched and linear:

Remarks: no data available

### Undecan-1-ol:

## **NEODOL 135**

Version 2.0

Revision Date 23.01.2025

Print Date 30.01.2025

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

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:** 

:

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

Components:

tridecan-1-ol:

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

## Pentadecanol, branched and linear:

Remarks: Data not available

Undecan-1-ol:

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

## 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

## **NEODOL 135**

Version 2.0

Revision Date 23.01.2025

Print Date 30.01.2025

#### 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.

#### **Aspiration toxicity**

#### **Product:**

Not an aspiration hazard.

### Components:

#### tridecan-1-ol:

Not an aspiration hazard.

#### Pentadecanol, branched and linear:

Not an aspiration hazard.

#### Undecan-1-ol:

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

#### **Further information**

### **Product:**

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

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.

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

### Pentadecanol, branched and linear:

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

#### Undecan-1-ol:

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

#### 12. ECOLOGICAL INFORMATION

Basis for assessment : Incomplete ecotoxicological data are available for this product.

The information given below is based partly on a knowledge of the components and the ecotoxicology of similar products.

Unless indicated otherwise, the data presented is

representative of the product as a whole, rather than for individual component(s). Incomplete ecotoxicological data are available for this product. The information given below is based partly on a knowledge of the components and the

ecotoxicology of similar products.

## **Ecotoxicity**

**Product:** 

Toxicity to fish (Acute

toxicity) Remarks: Toxic

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

Toxicity to crustacean (Acute

toxicity)

Remarks: Very toxic.

LC/EC/IC50 < 1 mg/l

Toxicity to algae/aquatic

plants (Acute toxicity)

Remarks: Very toxic. LC/EC/IC50 < 1 mg/l

Toxicity to fish (Chronic

toxicity)

: Remarks: NOEC/NOEL > 0.01 - <=0.1 mg/l

Toxicity to crustacean

(Chronic toxicity)

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

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Practically non toxic:

LC/EC/IC50 > 100 mg/l

Components: tridecan-1-ol:

Toxicity to fish (Acute : Remarks: Toxic

toxicity) LC/EC/IC50 >1 -  $\leq$ 10 mg/I

Toxicity to crustacean (Acute

toxicity)

: Remarks: Very toxic. LC/EC/IC50 < 1 mg/l

Toxicity to algae/aquatic : Remarks: Very toxic. plants (Acute toxicity) : LC/EC/IC50 < 1 mg/l

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

M-Factor (Short-term (acute)

aquatic hazard)

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Practically non toxic:

LC/EC/IC50 > 100 mg/l

Toxicity to fish (Chronic

toxicity)

Toxicity to

crustacean(Chronic toxicity)

Undecan-1-ol:

Toxicity to fish (Acute

toxicity)

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

: Remarks: NOEC/NOEL > 0.01 - <=0.1 mg/l

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

Toxic

: 1

Toxicity to crustacean (Acute

toxicity)

: Remarks: Very toxic. LC/EC/IC50 < 1 mg/l

Toxicity to algae/aquatic

plants (Acute toxicity)

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

Toxic

: 1

M-Factor (Short-term (acute)

aquatic hazard)

Toxicity to microorganisms

(Acute toxicity)

: 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)

Toxicity to

: Remarks: Data not available

: Remarks: NOEC/NOEL > 0.01 - <=0.1 mg/l

crustacean(Chronic toxicity)

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.

**Bioaccumulative potential** 

**Product:** 

Bioaccumulation : Remarks: Based on data from similar materials

Bioaccumulation Remarks: Bioaccumulation is unlikely to occur due to

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

metabolism and excretion.

Partition coefficient: n-

octanol/water

: log Pow: ca. 4.72 - 6.2

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.

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.

Other adverse effects

no data available

### 13. DISPOSAL CONSIDERATIONS

## **Disposal methods**

Waste from residues : 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.

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

Send to drum recoverer or metal reclaimer.

#### 14. TRANSPORT INFORMATION

#### **International Regulations**

**ADR** 

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Alcohols C14-15, 1-Undecanol)

Class : 9
Packing group : III
Labels : 9
Hazard Identification Number : 90
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Alcohols C14-15, 1-Undecanol)

Class : 9
Packing group : III
Labels : 9

**IMDG-Code** 

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Alcohols C14-15, 1-Undecanol)

Class : 9
Packing group : III
Labels : 9
Marine pollutant : yes

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

Pollution category : Y
Ship type : 2

Product name : NEODOL 135 (contains Undecyl Alcohol)

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.

needs to comply with in connection with transport.

**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

# **NEODOL 135**

Version 2.0	Revision Date 23.01.2025	Print Date 30.01.2025
	observe strict safety precautions wh	en involved with a
	confined space entry.	

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

Code

## 15. REGULATORY INFORMATION

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

## **Local Regulations**

Workplace Safety and Health Act & Workplace Safety and Health (General Provision) Regulations	This product is subject to the SDS, Labelling, PEL and other requirements in the Act/ Regulations.
Fire Safety Act and Fire Safety (Petroleum & Flammable Materials) Regulations	This product is not subject to the requirements in the Act/Regulations.
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives) Regulations	This product is subject to the requirements in the Act/ Regulations.
Environmental Protection and Management Act and Environmental Protection and Management (Hazardous Substances) Regulations	This product is not subject to the requirements in the Act/Regulations.

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

## Other international regulations

## 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

#### **16. OTHER INFORMATION**

### **Full text of H-Statements**

H305	May be harmful if swallowed and enters airways.
H315	Causes skin irritation.
H316	Causes mild skin irritation.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

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

Asp. Tox. Aspiration hazard Eye Irrit. Eye irritation Skin Irrit. Skin irritation

#### **Abbreviations and Acronyms**

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil: ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG -Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

#### **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.

Other information There has been a decrease in the Health Hazard classification

of this product in section 2.

## **NEODOL 135**

Version 2.0 Revision Date 23.01.2025 Print Date 30.01.2025

Sources of key data used to compile the Safety Data Sheet

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

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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