

SAFETY DATA SHEET.

NEODOL 135

Version 1.0

Revision Date. 29.12.2025

Print Date. 30.12.2025

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : NEODOL 135
Product code : V2483, V2501

1.2 Identified relevant uses of the substance or mixture and restrictions on use

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.

1.3 Details of the supplier of the safety data sheet

Manufacturer or supplier's details

Manufacturer/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

1.4 Emergency telephone number

Emergency telephone number : +65 6542 9595 (Alert-SGS)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

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Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
tridecan-1-ol	112-70-9	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 35 - <= 50
Pentadecanol, branched and linear	90480-71-0	Aquatic Chronic 1; H410	>= 35 - <= 50
Undecan-1-ol	112-42-5	Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 EUH066	>= 10 - <= 18

For explanation of abbreviations see section 16.

3. HAZARDS IDENTIFICATION

3.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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

3.2 Label elements

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:

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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.

3.3 Other hazards

Repeated exposure may cause skin dryness or cracking.
This substance is not PBT, vPvB, PMT, or vPvM.

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.

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

: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.

4.2 Protection of first-aiders

Protection of first-aiders

: When administering first aid, ensure that you are wearing the appropriate personal protective equipment according to the

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incident, injury and surroundings.

4.3 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	: 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. 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. Ingestion may result in nausea, vomiting and/or diarrhea.
Notes to physician	: Call a doctor or poison control center for guidance. Treat symptomatically. IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!

5. FIRE-FIGHTING 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 firefighting	: 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.
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5.3 Recomendations for fire-fighters

Specific extinguishing methods	: Standard procedure for chemical fires. Clear fire area of all non-emergency personnel. Keep adjacent containers cool by spraying with water.
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).

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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.
 - 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 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.

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.

7. HANDLING AND STORAGE

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7.1 Precautions for safe handling

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 Section 8 of this Safety Data Sheet. Use the information in this data sheet as input to a risk assessment of local circumstances to help determine appropriate controls for safe handling, storage and disposal of this material. Ensure that all local regulations regarding handling and storage facilities are followed.
Advice on safe handling	: Avoid contact with skin, eyes and clothing. Do not empty into drains.
Avoidance of contact	: Sudden Release of Pressure Hazard Copper. Copper alloys. Strong oxidising agents. Aluminum
Product Transfer	: Keep containers closed when not in use. Do not use compressed air for filling discharge or handling.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage	: Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.
Other data	: 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 ³ 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)	: 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. This product must not be used in applications other than the

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above without first seeking the advice of the supplier.

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.

8.2 Exposure controls

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 Sécurité, (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

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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

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

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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.
- 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 vapour.
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.
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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Appearance : Semi-solid at room temperature.
- Colour : colourless
- Odour : mild
- Odour Threshold : Data not available
- pH : 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
- Flash point : 143 °C / 289 °F
- Evaporation rate : Data not available
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Flammability (solid, gas)	: Data not available
Upper explosion limit	: Data not available
Lower explosion limit	: Data not available
Vapour pressure	: < 0.01 hPa (25 °C / 77 °F)
Relative vapour density	: Data not available
Relative density	: 0.83 (25 °C / 77 °F) Method: ASTM D4052
Density	: 822 kg/m ³ (40 °C / 104 °F) Method: ASTM D4052
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 mm ² /s (40 °C / 104 °F) Method: ASTM D445
Particle size	: Data not available

9.2 Other information

Explosive properties	: Not applicable
Oxidizing properties	: Data not available
Surface tension	: Data not available

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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.
Molecular weight	: 203 - 210 g/mol

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.
Copper alloys.
Strong oxidising agents.
Aluminum

10.6 Hazardous decomposition products

: None expected under normal use conditions.

11. TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects

Basis for assessment : 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 given is based on product testing, and/or similar products, and/or components.

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:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Undecan-1-ol:

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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.

Respiratory or skin sensitisation

Product:

Remarks: Not a sensitisier.

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

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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:

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

Material	GHS/CLP Carcinogenicity Classification
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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

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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.

11.2 Information on other hazards

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.

Pentadecanol, branched and linear:

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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.

12.1 Toxicity

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/EL10 > 0.01 - <=0.1 mg/l

Toxicity to crustacean (Chronic toxicity) : Remarks: NOEC/NOEL/EL10 > 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 toxicity) : Remarks: Toxic
LC/EC/IC50 >1 - <=10 mg/l

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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
M-Factor (Short-term (acute) aquatic hazard)	: 1
Toxicity to microorganisms (Acute toxicity)	: Remarks: Practically non toxic: LC/EC/IC50 > 100 mg/l
Toxicity to fish (Chronic toxicity)	: Remarks: NOEC/NOEL/EL10 > 0.01 - <=0.1 mg/l
Toxicity to crustacean(Chronic toxicity)	: Remarks: NOEC/NOEL/EL10 > 0.1 - <=1.0 mg/l
Undecan-1-ol :	
Toxicity to fish (Acute toxicity)	: Remarks: LC/EC/IC50 >1 - <=10 mg/l Toxic
Toxicity to crustacean (Acute toxicity)	: Remarks: LC/EC/IC50 < 1 mg/l Very toxic.
Toxicity to algae/aquatic plants (Acute toxicity)	: Remarks: LC/EC/IC50 < 1 mg/l Very toxic.
M-Factor (Short-term (acute) aquatic hazard)	: 1
Toxicity to microorganisms (Acute toxicity)	: Remarks: Data estimated using read-across from similar substances 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 crustacean(Chronic toxicity)	: Remarks: NOEC/NOEL/EL10 > 0.01 - <=0.1 mg/l

12.2 Persistence and degradability

Product:

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

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tridecan-1-ol :

Biodegradability : Remarks: Readily biodegradable.

Undecan-1-ol :

Biodegradability : Remarks: Data estimated using read-across from similar substances
Readily biodegradable.
Oxidises rapidly by photo-chemical reactions in air.

12.3 Bioaccumulative potential

Product:

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

Bioaccumulation : Remarks: Based on data from similar materials

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 : Bioconcentration factor (BCF): 50
Remarks: Not expected to bioaccumulate significantly.

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.

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12.5 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment 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.
Send to drum recoverer or metal reclaimer. |

14. TRANSPORT INFORMATION

14.1 UN number or ID number

- | | | |
|------|---|------|
| ADR | : | 3082 |
| IMDG | : | 3082 |
| IATA | : | 3082 |

14.2 UN proper shipping name

- | | | |
|-----|---|--|
| ADR | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Alcohols C14-15, 1-Undecanol) |
|-----|---|--|

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IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols C14-15, 1-Undecanol)
IATA	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Alcohols C14-15, 1-Undecanol)

14.3 Transport hazard class(es)

ADR	:	9
IMDG	:	9
IATA	:	9

14.4 Packing group

ADR		
Packing group	:	III
Classification Code	:	M6
Hazard Identification Number	:	90
Labels	:	9
IMDG		
Packing group	:	III
Labels	:	9
IATA		
Packing group	:	III
Labels	:	9

14.5 Environmental hazards

ADR		
Environmentally hazardous	:	yes
IMDG		
Marine pollutant	:	yes
IATA		

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.
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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.
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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

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

The Manufacture, Storage and Import of Hazardous Chemicals Rules 1989 (amended version issued 2000). The Factories Act, 1948, The Second Schedule: Permissible levels of certain chemical substances in work environment, as amended through 1987. India Central motor Vehicles (Amendment) Rules 1993.

Other international regulations

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

AU AIIC	: Listed
CA. DSL	: Listed
CN IECSC	: Listed
JP ENCS	: Listed
US TSCA	: Listed
KR KECI	: Listed

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

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this

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document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

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 ICLID date base, EC 1272 regulation, etc). |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.