

Safety Data Sheet

Prepared according to GB/T 16483, GB/T 17519

NEODOL 25-9

800001012112
Initial release date: 2006.01.06

Version 2.1

Revision Date 2015.03.27

Print Date 2015.04.01

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NEODOL 25-9
Product code : V2454
Synonyms : Alcohols, C12-15, ethoxylated
CAS-No. : 68131-39-5

Manufacturer or supplier's details

Supplier : SHELL EASTERN CHEMICALS (S)
A REGISTERED BUSINESS OF SHELL EASTERN
TRADING (PTE) LTD (UEN:198902087C)
The Metropolis Tower 1
9 North Buona Vista Drive , #07-01
Singapore 138588
Singapore
Telephone : +65 6384 8737
Telefax : +65 6384 8454

Emergency telephone : +86-532-83889090
number

Recommended use of the chemical and restrictions on use

Recommended use : Use in detergent manufacture.
Restrictions on use : 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

Emergency Overview

Appearance	Waxy solid at ambient temperature, clear or slightly turbid at 40 °C.
Colour	white
Odour	mild
Health Hazards	Harmful if swallowed. Causes serious eye damage. Causes mild skin irritation.
Safety Hazards	Not classified as flammable but will burn.
Environmental Hazards	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

GHS Classification

Acute toxicity (Oral) : Category 4
Serious eye damage : Category 1

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Skin irritation : Category 3
Acute aquatic toxicity : Category 2
Chronic aquatic toxicity : Category 3

GHS Label element

Hazard pictograms : 

Signal word : Danger

Hazard statements : PHYSICAL HAZARDS:
Not classified as a physical hazard under GHS criteria.
HEALTH HAZARDS:
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H316 Causes mild skin irritation.
ENVIRONMENTAL HAZARDS:
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :
Prevention:
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear eye protection/ face protection.
P273 Avoid release to the environment.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
Storage:
No precautionary phrases.
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

None known.

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Physical and chemical hazards	Not classified as flammable but will burn.
Health Hazards	Inhalation: No specific hazards under normal use conditions. Skin: Causes mild skin irritation. Eyes: Causes serious eye damage. Ingestion: Harmful if swallowed.
Environmental Hazards	Toxic to aquatic life.Harmful to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration [%]
C12-15 Alcohol Ethoxylate	68131-39-5	Acute Tox.4; H302 Eye Dam.1; H318 Skin Irrit.3; H316 Aquatic Acute1; H400 Aquatic Chronic3; H412	<= 100

For explanation of abbreviations see section 16.

4. FIRST-AID MEASURES

General advice	: DO NOT DELAY. Keep victim calm. Obtain medical treatment immediately.
If inhaled	: Remove to fresh air. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
In case of skin contact	: Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.
In case of eye contact	: Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. 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 vomiting occurs spontaneously, keep head below hips to prevent aspiration.
Most important symptoms and effects, both acute and delayed	: Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters.

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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.	
Notes to physician	: Treat symptomatically.	

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 media	: None
Specific hazards during firefighting	: Carbon monoxide may be evolved if incomplete combustion occurs.
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).

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 Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 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.

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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 Chapter 8 of this Safety Data Sheet. For guidance on disposal of spilled material see Chapter 13 of this Safety Data Sheet.	

7. HANDLING AND STORAGE

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 Chapter 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 : Copper.
Copper alloys.
Strong oxidising agents.
Aluminum

Product Transfer : Keep containers closed when not in use. Refer to guidance under Handling section.

Storage

Conditions for safe storage : Refer to section 15 for any additional specific legislation covering the packaging and storage of this product.

Other data : Tanks should be fitted with heating coils in areas where the ambient temperatures are below the recommended product handling temperatures. Heating coil skin temperatures should not exceed 100 °C.
Bulk storage tanks should be diked (bunded).
Vapours from tanks should not be released to atmosphere.

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	Breathing losses during storage should be controlled by a suitable vapour treatment system. Nitrogen blanket recommended for large tanks (capacity 100 m3 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.	
Specific use(s)	: Not applicable Ensure that all local regulations regarding handling and storage facilities are followed.	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

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 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:

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Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

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.

Do not ingest. If swallowed then seek immediate medical assistance.

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 [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

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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 : Wear goggles for use against liquids and gas.
Wear full face shield if splashes are likely to occur.
- Skin and body protection : Skin protection is not required under normal conditions of use.
For prolonged or repeated exposures use impervious clothing over parts of the body subject to exposure.
If repeated and/or prolonged skin exposure to the substance is likely, then wear suitable gloves tested to relevant Standard, and provide employee skin care programmes.
- 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Waxy solid at ambient temperature, clear or slightly turbid at 40 °C.
- Colour : white
- Odour : mild

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Odour Threshold	: Data not available	
pH	: 6.8, 0.5% mass aqueous solution.	
	: < 25 °C / < 77 °F	
Boiling point/boiling range	: no data available	
Flash point	: 190 °C / 374 °F	
	Method: IP 34	
Evaporation rate	: Data not available	
Flammability (solid, gas)	: Not classified as a flammability hazard	
Upper explosion limit	: no data available	
Lower explosion limit	: Data not available	
Vapour pressure	: 0.01 Pa (20 °C / 68 °F)	
Relative vapour density	: no data available	
Relative density	: 0.992 (40 °C / 104 °F)	
Density	: 992 kg/m3 (40 °C / 104 °F)	
	Method: IP 160	
Solubility(ies)		
Water solubility	: Miscible., High viscosity gels may be formed at mid range concentrations.	
Partition coefficient: n-octanol/water	: log Pow: 3	
Auto-ignition temperature	: Data not available	
Decomposition temperature	: Data not available	
Viscosity		
Viscosity, dynamic	: Data not available	
Viscosity, kinematic	: 41 mm2/s (40 °C / 104 °F)	
Explosive properties	: Not applicable	
Oxidizing properties	: Data not available	
Surface tension	: 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.	
Molecular weight	: 573 - 638 g/mol	

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10. STABILITY AND REACTIVITY

Reactivity	: Stable at normal ambient temperature and pressure., May oxidise in the presence of air.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: Extremes of temperature and direct sunlight. Product cannot ignite due to static electricity.
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.
Exposure routes	: Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

Acute toxicity

Product:

Acute oral toxicity	: LD50 rat: >300 - <=2000 milligram per kilogram Remarks: Harmful if swallowed.
Acute inhalation toxicity	: Remarks: Low toxicity by inhalation.
Acute dermal toxicity	: LD50 Rabbit: > 2,000 mg/kg Remarks: Expected to be of low toxicity:

Skin corrosion/irritation

Product:

Remarks: Causes mild skin irritation., Repeated exposure may cause skin dryness or cracking

Serious eye damage/eye irritation

Product:

Remarks: Causes serious eye damage.

Respiratory or skin sensitisation

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Product:

Remarks: For respiratory and skin sensitisation:
Not expected to be a sensitiser.

Germ cell mutagenicity

Product:

: Remarks: Not considered a mutagenic hazard.

Carcinogenicity

Product:

Remarks: Not expected to be carcinogenic.

Material	GHS/CLP Carcinogenicity Classification
C12-15 Alcohol Ethoxylate	No carcinogenicity classification.

Reproductive toxicity

Product:

: Remarks: Does not impair fertility., Not a developmental toxicant.

STOT - single exposure

Product:

Remarks: Not expected to be a hazard.

STOT - repeated exposure

Product:

Remarks: Not expected to be a hazard.

Aspiration toxicity

Product:

Not considered an aspiration hazard.

Further information

Product:

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

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12. ECOLOGICAL INFORMATION

Basis for assessment : Information given is based on product testing.

Ecotoxicity

Product:

Toxicity to fish (Acute toxicity) :
Remarks: Toxic:
LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to crustacean (Acute toxicity) :
Remarks: Toxic:
LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to algae/aquatic plants (Acute toxicity) :
Remarks: Toxic:
LL/EL/IL50 > 1 <= 10 mg/l

Toxicity to fish (Chronic toxicity) : Remarks: NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l

Toxicity to crustacean (Chronic toxicity) : Remarks: NOEC/NOEL expected to be > 0.1 - <= 1.0 mg/l

Toxicity to microorganisms (Acute toxicity) : Remarks: Expected to be practically non toxic:
LL/EL/IL50 > 100 mg/l

Persistence and degradability

Product:

Biodegradability : Remarks: Readily biodegradable.

Bioaccumulative potential

Product:

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

Partition coefficient: n-octanol/water : log Pow: 3

Mobility in soil

Product:

Mobility : Remarks: If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

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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.	
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.	
Local legislation Remarks	: 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. If potential for exposure exists refer to Section 8 for specific personal protective equipment.	

14. TRANSPORT INFORMATION

National Regulations

International Regulation

ADR

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category	: Y
Ship type	: 2
Product name	: Alcohol (C12-C16) poly (7-19) ethoxylates
Special precautions	: Refer to Chapter 7, Handling & Storage, for special precautions which a user needs to be aware of or needs to comply with in connection with transport.

Special precautions for user

Not applicable

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

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which may cause asphyxiation or death.. Personnel must observe strict safety precautions when involved with a confined space entry.

15. REGULATORY INFORMATION

National regulatory information

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

GB 6944-2012: Classification and Code of Dangerous Goods.GB/T 16483-2008: Safety Data Sheet for Chemical Products Content and Order of Sections.GB 30000 Rules for classification and labelling of chemicals.GB 12268-2012: List of Dangerous Goods.GBZ 2.1-2007: Occupational Exposure Limits for Hazardous Agents in the Workplace Part 1: Chemical Hazardous Agents. National Catalogue of Hazardous Wastes.

Occupational Disease Prevention Law of the PRC :The categories of occupational disease.Not applicable.Dangerous Chemicals Regulations :List of hazardous chemicals.Listed or not applicable.Use toxic chemical in workplace protection regulation : Hyper toxic chemical list. Not applicable. Environmental Administration of New Chemical Substances. All components listed.

Other international regulations

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

AICS	: Listed
DSL	: Listed
IECSC	: Listed
ENCS	: Listed
TSCA	: Listed
KECI	: Listed
PICCS	: Listed
NZIoC	: Listed
ISHL	: Listed
NZIoC	: Listed

16. OTHER INFORMATION

Full text of H-Statements

H302	Harmful if swallowed.
H316	Causes mild skin irritation.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Skin Irrit.	Skin irritation

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this document can be looked up in reference literature (e.g. scientific dictionaries) and/or websites.

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Further information

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).

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.