## **NEODOL 1**

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#### 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical product name : NEODOL 1

Product code : V2705

Synonyms : C11 alcohol CAS-No. : 112-42-5

ENCS/ISHL number : 2-217 (CAS: 112-42-5)

Manufacturer or supplier's details

Supplier's company name, :

address and phone number 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 : +65 6384 8269

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

Contact for Safety Data

Sheet

Emergency telephone : +65 6542 9595 (Alert SGS)

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

GHS classification of chemical product

Eye irritation : Category 2A
Aspiration hazard : Category 2
Short-term (acute) aquatic : Category 1

hazard

Long-term (chronic) aquatic

hazard

: Category 2

## GHS label elements

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Hazard pictograms







Signal word : Warning

Hazard statements : PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS:

H319 Causes serious eye irritation.

H305 May be harmful if swallowed and enters airways.

ENVIRONMENTAL HAZARDS: H400 Very toxic to aquatic life.

H411 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.

P273 Avoid release to the environment.

#### Response:

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

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage.

#### 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. Harmful: May cause lung damage if swallowed.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

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#### 3.1 Substances

#### Components

Substance name	CAS-No.	Classification	Concentration (% w/w)
Undecan-1-ol	112-42-5	Eye Irrit.2A; H319 Asp. Tox.2; H305 Aquatic Acute1; H400 Aquatic Chronic2; H411	<= 100

For explanation of abbreviations see section 16.

4.	<b>FIRS</b>	T-AID	MEA	SUF	RES
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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.

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

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sensation, redness, or swelling.

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

No specific hazards under normal use conditions.

Ingestion may result in nausea, vomiting and/or diarrhoea.

Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance.

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 : IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT!

Call a doctor or poison control center for guidance.

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

: Do not use water in a jet.

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.

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

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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

## Handling

Technical measures : Avoid breathing of or direct contact with material. Only use in

well ventilated areas. Wash thoroughly after handling. For guidance on selection of personal protective equipment see

Section 8 of this Safety Data Sheet.

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.

Sudden Release of Pressure Hazard

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Facial protective equipment	:	: Wear goggles for use against liquids and gas. Wear full face shield if splashes are likely to occur.	
Hygiene measures	:	Wash hands before eating, drinking, smoking and using the toilet. Launder contaminated clothing before re-use.	
Describe contact avoidance, etc	:	Copper. Copper alloys. Strong oxidising agents. Aluminum	
Product Transfer	:	Keep containers closed when not in use compressed air for filling discharge or	
Storage			
Conditions for safe storage	:	Refer to section 15 for any additional covering the packaging and storage of	
Other data	:	Bulk storage tanks should be diked (by Vapours from tanks should not be released breathing losses during storage should suitable vapour treatment system. Nitrogen blanket recommended for larm or higher). Insulation (lagging) will minimize heat ambient temperature. Tanks should be fitted with heating coambient conditions can result in handle the freezing point/pour point of the process.	eased to atmosphere. d be controlled by a  rge tanks (capacity 100  loss in areas of low  ils in areas where ing temperatures below
Packaging material	:	Suitable material: Stainless steel., Epo Unsuitable material: Aluminum, Coppe	
Container Advice	:	Containers, even those that have been explosive vapours. Do not cut, drill, graimilar operations on or near container	ind, weld or perform
Specific use(s)	:	Not applicable	
		Ensure that all local regulations regard storage facilities are followed.	ding handling and

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Threshold limit value and permissible exposure limits for each component in the work environment

**Biological occupational exposure limits** 

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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

Standard concentration values and application methods for chemical substances were determined to prevent health problems among workers (mhlw.go.jp)

#### **Engineering measures**

: 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.

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:

#### 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.

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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 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 and face protection

Wear goggles for use against liquids and gas. Wear full face shield if splashes are likely to occur.

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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

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

Physical state : Liquid at 20 °C.

Colour colourless

Odour mild

Odour Threshold Data not available Hq : Data not available

Melting / freezing point : Data not available

pour point 11 °C / 52 °F

Boiling point, initial boiling

point and boiling range

: 245 °C / 473 °F

Flash point : 121 °C / 250 °F

Evaporation rate : Data not available

Flammability

Flammability (solid, gas) : Not applicable

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit : Data not available

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Lower explosion limit : Data not available

Vapour pressure : 0.4 Pa Relative vapour density : 4.5

Density and / or relative density

Relative density : 0.831 (25 °C / 77 °F)

Method: ASTM D4052

Density : 830 kg/m3 (20 °C / 68 °F)

Method: ASTM D4052

Solubility(ies)

Water solubility : 19.1 mg/l (25 °C / 77 °F)

Partition coefficient: n-

octanol/water

: log Pow: 4.72

Auto-ignition point : Data not available

Decomposition temperature : Data not available

Viscosity

Viscosity (Dynamic) : Typical 17 mPa.s (20 °C / 68 °F)

Method: ASTM D445

Viscosity (Dynamic) 50 mPa.s (Not applicable /)

Method: ASTM D445

Viscosity, kinematic : 11.0 mm2/s (40 °C / 104 °F)

Method: ASTM D445

18 mm2/s (25 °C / 77 °F) Method: ASTM D445

Particle characteristics

Particle size : Data not available

Explosive properties : Not classified

Oxidizing properties : Data not available

Surface tension : Data not available

Conductivity: > 10,000 pS/m

A number of factors, for example liquid temperature, presence

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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 : 172 - 173 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

conditions.

: None known.

Possibility of hazardous

reactions

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

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

products, and/or components.

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

individual component(s).

exposure

Information on likely routes of : Exposure may occur via inhalation, ingestion, skin absorption,

skin or eye contact, and accidental ingestion.

**Acute toxicity** 

**Components:** 

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

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#### Skin corrosion/irritation

### **Components:**

Undecan-1-ol:

Remarks: Causes mild skin irritation.

## Serious eye damage/eye irritation

#### **Components:**

Undecan-1-ol:

Remarks: Causes serious eye irritation.

#### Respiratory or skin sensitisation

#### **Components:**

Undecan-1-ol:

Remarks: Not a sensitiser.

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

## Germ cell mutagenicity

#### Components:

Undecan-1-ol:

: Remarks: No evidence of mutagenic activity.

## Carcinogenicity

#### **Components:**

Undecan-1-ol:

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

Material	GHS/CLP Carcinogenicity Classification
Undecan-1-ol	No carcinogenicity classification.

## Reproductive toxicity

#### Components:

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

#### **Components:**

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Undecan-1-ol:

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

#### STOT - repeated exposure

#### Components:

Undecan-1-ol:

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

#### **Aspiration toxicity**

#### **Components:**

Undecan-1-ol:

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

#### **Further information**

#### Components:

Undecan-1-ol:

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

### 12. ECOLOGICAL INFORMATION

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).

## **Ecotoxicity**

## **Components:**

Undecan-1-ol:

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

toxicity) Toxic

Toxicity to crustacean (Acute : Remarks: Very toxic.

toxicity) LC/EC/IC50 < 1 mg/l

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

plants (Acute toxicity) Toxic

M-Factor (Short-term (acute) : 1

aquatic hazard)

Toxicity to microorganisms : Remarks: LC/EC/IC50 > 100 mg/l

(Acute toxicity) Practically non toxic:

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

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Toxicity to fish (Chronic Remarks: Data not available

toxicity)

Toxicity to

crustacean(Chronic toxicity)

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

Persistence and degradability

**Components:** Undecan-1-ol:

Biodegradability : Remarks: Readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

**Bioaccumulation** 

**Product:** 

Partition coefficient: n-

octanol/water **Components:** Undecan-1-ol: : log Pow: 4.72

: Remarks: Bioaccumulation is unlikely to occur due to Bioaccumulation

metabolism and excretion.

Mobility in soil

Components: 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

Hazardous to the ozone layer

Not applicable

#### 13. DISPOSAL CONSIDERATIONS

## **Disposal methods**

Chemicals (residual waste) : 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.

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Contaminated containers and

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.

Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

#### 14. TRANSPORT INFORMATION

#### Regulatory information when there are domestic regulations

Refer to section 15 for specific national regulation.

#### **International Regulations**

**ADR** 

UN number : 3082

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID. Product Name (Proper

shipping name) N.O.S.

(Undecan-1-ol)

Class (Hazard class in

transportation)

Packing group : 111 Labels 9 Hazard Identification Number : 90 Environmentally hazardous : yes

**IATA-DGR** 

UN/ID No. : UN 3082

Product Name (Proper

shipping name)

Environmentally hazardous substances, liquid, n.o.s.

(Undecan-1-ol)

Class (Hazard class in

transportation)

: 111

: 9

: 9

Packing group Labels : 9

**IMDG-Code** 

**UN** number : UN 3082

Product Name (Proper

shipping name)

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

(Undecan-1-ol)

N.O.S.

Class (Hazard class in

transportation)

: 9

Packing group : 111 Labels 9 Marine pollutant : yes

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

Pollution category : X Ship type : 2

Product name : 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.

**Additional Information**: This product may be transported under nitrogen blanketing.

Nitrogen is an odourless and invisible gas. Exposure to nitrogen enriched atmospheres displaces available oxygen which may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a

confined space entry.

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

Code

#### 15. REGULATORY INFORMATION

#### **Related Regulations**

#### **Fire Service Law**

Group 4, Type 3 petroleums

## **Chemical Substance Control Law**

**Priority Assessment Chemical Substance** 

Chemical name	Number
Alkanol(C=10-16) (only the substances that contain any of C=11-14	171
components)	

#### Industrial Safety and Health Law

## Harmful Substances Required Permission for Manufacture

Not applicable

#### **Substances Subject to be Notified Names**

Article 57-2 (Enforcement Order Table 9)

Chemical name	Number	Concentration (%)
Alkanol(C=10-16) (only the substances	127	90 - 100
that contain any of C=11-14 components)		

#### **Substances Subject to be Indicated Names**

Article 57 (Enforcement Order Article 18)

7 H H G G G T ( 2 H G G G G G G G G G G G G G G G G G G	
Chemical name	Number
Alkanol(C=10-16) (only the substances that contain any of C=11-14	127
components)	

#### Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

# **Enforcement Order of the Industrial Safety and Health Law - Attached table 1 (Dangerous Substances)**

Not applicable

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#### **Poisonous and Deleterious Substances Control Law**

Not applicable

# Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

#### **Vessel Safety Law**

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and storage of dangerous goods and its Attached Table 1)

#### **High Pressure Gas Safety Act**

Not applicable

#### **Aviation Law**

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of Aviation Law and its Attached Table 1)

#### Marine Pollution and Sea Disaster Prevention etc Law

Bulk transportation : Classified as marine pollutant(Category X)

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

DSL : Listed

IECSC : Listed

ENCS : Listed

KECI : Listed

NZIoC : Listed

PICCS : Listed

TSCA : Listed

TCSI : Listed

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

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

H305 May be harmful if swallowed and enters airways.

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

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

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#### **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.

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.

# **NEODOL 1**

Version 5.2 Revision Date 2024.10.21 Print Date 2024.10.28

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