In accordance with Occupational Safety and Health Act's Standard of Classification and Labelling of Chemical Substances and MSDS

NEODOL 23 Alcohol

MSDS number 7251

Version 3.2 Revision Date 2025.01.27 Print Date 2025.02.03

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NEODOL 23 Alcohol

Product code : V2364, V2430

CAS-No. : 75782-86-4

Other means of identification : Alcohols, C12-13

Recommended use of the chemical and restrictions on use

Recommended use : Use in the preparation of alcohol ethoxylates for 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.

This product must not be used in applications other than those

listed in Section 1 without first seeking the advice of the

supplier.

Manufacturer or supplier's details

Supplier :

SHELL EASTERN CHEMICALS (S)

A REGISTERED BUSINESS OF SHELL EASTERN

TRADING (PTE) LTD (UEN:198902087C)

9 North Buona Vista Drive, #07-01

The Metropolis Tower 1 Singapore 138588

Singapore 130300

Singapore : +65 6384 8269

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

Contact for Safety Data

Sheet

: sccmsds@shell.com

Emergency telephone

number

: + (65) 6542 9595 (Alert-SGS)

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

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

hazard

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Long-term (chronic) aquatic

hazard

Category 2

GHS label elements

Hazard pictograms

Signal word : Warning

Hazard statements : PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS:

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:

P273 Avoid release to the environment.

Response:

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. Slightly irritating to the skin. Slightly

irritating to the eye.

NFPA Rating (Health, Fire, : 0, 1, 0

Reactivity)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Components

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	Chemical name	Common Name	CAS-No.	Concentration (% w/w)
	Alcohols, C12-13	Alcohols, C12-13	75782-86-4	<= 100

4. FIRST-AID MEASURES

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

conditions.

In case of eye contact : Flush eye with copious quantities of water.

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

rinsing.

If persistent irritation occurs, obtain medical attention.

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.

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

If symptoms persist, obtain medical advice.

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.

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

No specific hazards under normal use conditions.

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.

Protection of first-aiders : When administering first aid, ensure that you are wearing the

appropriate personal protective equipment according to the

incident, injury and surroundings.

Notes to physician : Call a doctor or poison control center for guidance.

Treat symptomatically.

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5. FIRE-FIGHTING MEASURES

Suitable and unsuitable 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

: 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 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 : For large liquid spills (> 1 drum), transfer by mechanical

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containment and cleaning up

means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water. Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely For small liquid spills (< 1 drum), transfer by mechanical means to a labeled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove

contaminated soil and dispose of safely.

Additional advice : For guidance on selection of personal protective equipment

see Section 8 of this Safety Data Sheet.

For guidance on disposal of spilled material see Section 13 of

this Safety Data Sheet.

7. HANDLING AND STORAGE

General Precautions : Avoid breathing of or direct contact with material. Only use in

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

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 : Copper.

Copper alloys.

Strong oxidising agents.

Aluminum

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

under Handling section.

Safe storage methods (including conditions to be avoided)

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. Breathing losses during storage should be controlled by a

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	m3 or higher). Insulation (lagging) will minimize he ambient temperature. Tanks should be fitted with heating ambient conditions can result in ha	Nitrogen blanket recommended for large tanks (capacity 100 m3 or higher). Insulation (lagging) will minimize heat loss in areas of low	
Packaging material	: Suitable material: Stainless steel., Unsuitable material: Aluminum, Co		
Container Advice	 Containers, even those that have be explosive vapours. Do not cut, drill, similar operations on or near contain 	grind, weld or perform	
Specific use(s)	: Not applicable		
	Ensure that all local regulations reg storage facilities are followed.	garding handling and	

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Components with workplace control parameters

Biological occupational exposure limits

No biological limit allocated.

Monitoring Methods

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

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

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

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

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

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

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

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

Engineering measures : Where material is heated, sprayed or mist formed, there is

greater potential for airborne concentrations to be generated. Adequate ventilation to control airborne concentrations.

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> 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.

Personal protective equipment

Protective measures

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

: No respiratory protection is ordinarily required under normal Respiratory protection

conditions of use.

In accordance with good industrial hygiene practices. precautions should be taken to avoid breathing of material.

: If material is handled such that it could be splashed into eyes, Eye protection

protective eyewear is recommended.

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. Incidental contact/Splash protection: PVC, neoprene or nitrile 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

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> 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.

Skin and body protection : Skin protection is not ordinarily required beyond standard

work clothes.

It is good practice to wear chemical resistant gloves.

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

toilet.

Launder contaminated clothing before re-use.

Environmental exposure controls

General advice : Local guidelines on emission limits for volatile substances

must be observed for the discharge of exhaust air containing

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

environmental legislation.

Information on accidental release measures are to be found in

section 6.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Colour : Water white

Odour : mild

Odour Threshold : Data not available : Data not available Ha : < 17.2 °C / < 63.0 °F pour point

Melting point/freezing point Data not available

Boiling point/boiling range : 259 - 276 °C / 498 - 529 °F

: 137.2 °C / 279.0 °F Flash point

Method: ASTM D93 (PMCC)

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

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Upper/Lower explosion limit

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

Vapour pressure : < 0.05 hPa (25 °C / 77 °F)

Solubility(ies)

Water solubility : ca. 0.005 g/l

Relative vapour density : 7.0

Relative density : 0.833 (25.0 °C / 77.0 °F)

Method: ASTM D4052

Density : 0.833 g/cm3 (25 °C / 77 °F)

Method: ASTM D4052

Partition coefficient: n-

octanol/water

: Data not available

Auto-ignition temperature : Data not available

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : Data not available

Viscosity, kinematic : 14 mm2/sMethod: ASTM D445

Explosive properties : Not applicable

Oxidizing properties : Data not available

Surface tension : Data not available

Conductivity: > 10,000 pS/m

A number of factors, for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity of a liquid, This material is not expected to be

a static accumulator.

Particle size : Data not available

Data not available

Molecular weight : 194 g/mol

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10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions:

Stable at normal ambient temperature and pressure.,

May oxidise in the presence of air. Stable under normal conditions.

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

: 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.

Health hazard information

Acute toxicity

Components:

Alcohols, C12-13:

Acute oral toxicity : LD50 Rat: > 5,000 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

Skin corrosion/irritation

Components:

Alcohols, C12-13:

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Version 3.2 Remarks: Causes mild skin irritation.

Serious eye damage/eye irritation

Components:

Alcohols, C12-13:

Remarks: Not irritating to eye.

Respiratory or skin sensitisation

Components:

Alcohols, C12-13:

Remarks: Not a sensitiser.

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

Carcinogenicity

Components:

Alcohols, C12-13:

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

Material	GHS/CLP Carcinogenicity Classification
Alcohols, C12-13	No carcinogenicity classification.

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Germ cell mutagenicity

Components:

Alcohols, C12-13:

: Remarks: Non mutagenic

Reproductive toxicity

Components:

Alcohols, C12-13:

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

STOT - single exposure

Components:

Alcohols, C12-13:

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

STOT - repeated exposure

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Components:

Alcohols, C12-13:

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

Aspiration toxicity

Components:

Alcohols, C12-13:

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

Further information

Components:

Alcohols, C12-13:

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).

Ecotoxicity

Components:

Alcohols, C12-13:

Toxicity to fish (Acute

toxicity)

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

IOXIC

Toxicity to crustacean (Acute

toxicity)

: Remarks: LL/EL/IL50 <= 1 mg/l

Very toxic.

Toxicity to algae/aquatic plants (Acute toxicity)

: Remarks: LL/EL/IL50 <= 1 mg/l

Very toxic.

M-Factor (Short-term (acute)

aquatic hazard)

: 1

Toxicity to microorganisms

(Acute toxicity)

: Remarks: Data not available

Toxicity to fish (Chronic

: Remarks: Data not available

toxicity)

Toxicity to : Remarks: Data not available

crustacean(Chronic toxicity)

Persistence and degradability

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<u>Components:</u> Alcohols, C12-13:

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Biodegradability : Biodegradation: 84 %

Exposure time: 28 d

: Remarks: Data not available

Method: OECD Test Guideline 301F Remarks: Readily biodegradable.

Oxidises rapidly by photo-chemical reactions in air.

Bioaccumulative potential

Product:

Partition coefficient: n-

octanol/water
Components:
Alcohols, C12-13:

Bioaccumulation : Remarks: Has the potential to bioaccumulate.

Mobility in soil

Components: Alcohols, C12-13:

Mobility : Remarks: Floats on water., Adsorbs to soil and has low

mobility

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water

courses.

Waste product should not be allowed to contaminate soil or

water.

Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be complied with.

Contaminated packaging : Drain container thoroughly.

After draining, vent in a safe place away from sparks and fire.

Residues may cause an explosion hazard. Do not puncture, cut, or weld uncleaned drums. Send to drum recoverer or metal reclaimer.

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Disposal considerations

Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

National Regulations

Refer to section 15 for specific national regulation.

International Regulations

ADR

UN number : 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(C12-C13 ALCOHOL)

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

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(C12-C13 ALCOHOL)

Class : 9
Packing group : III
Labels : 9

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(C12-C13 ALCOHOL)

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

Maritime transport in bulk according to IMO instruments

Pollution category : Y Ship type : 2

Product name : Noxious liquid, NF, (5) n.o.s. (Neodol 23 contains alcohols

(C13+))

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

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MSDS number 7251 Print Date 2025.02.03 Version 3.2 Revision Date 2025.01.27 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.

15. REGULATORY INFORMATION

National regulatory information

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

INDUSTRY SAFETY & HEALTH ACT:	Hazardous substances prohibited from
	manufacturing, etc., Not applicable
	Hazardous substances subject to authorization,
	Not applicable
	1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Hazardous substances subject to control, Not
	applicable
	аррисавіе
Г	
	Substances established for exposure limits, Not
	applicable
	Hazardous factor subject to keep below
	permissible limit, Not applicable
	Hazardous Factors Subject to Working
	Environment Monitoring, Not applicable
	,
	Hazardous Factors Subject to Special Medical
	Examination, Not applicable
	Examination, Not applicable
CHEMICALS CONTROL ACT:	Tayia shamiaal subatanasa Nat anniisabla
CHEMICALS CONTROL ACT.	Toxic chemical substances, Not applicable
	Authorization chemical substances, Not
	applicable
	Restricted chemical substances, Not applicable
	Prohibited chemical substances, Not applicable
	Accident precaution chemical substance, Not
	applicable
	l aphiicanie

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DANGEROUS GOODS SAFE CONTROL ACT:	Category/Classification of dangerous material:, Category 4 Dangerous Goods (Flammable
	Liquids), Grade 3 petroleum chemicals

WASTES MANAGEMENT ACT:	Treat with Article 4/5/24/25 of Disposal
	Considerations Section.

Other requirements in domestic and other countries

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 other abbreviations

Aquatic Acute Short-term (acute) aquatic hazard Aquatic Chronic Long-term (chronic) aquatic hazard

Asp. Tox. Aspiration hazard

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 -

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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.

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).

Issuing date : 2003.12.17

Revision number and date

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

from the previous version.

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