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Caradol MD250-10

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Caradol MD250-10

Product code : U3215 CAS-No. : 25791-96-2

Synonyms : Polyol

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the : Use for the manufacture of polyurethane products.

Substance/Mixture

Uses advised against : This product must not be used in applications other than the

above without first seeking the advice of the supplier.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : SHELL MARKETS (MIDDLE EAST) LIMITED

CHEMICALS PO Box 307 JEBEL ALI, DUBAI Unit.Arab Emir.

Telephone : +971 4 405 4400 Telefax : +971 4 329 3311

Email Contact for Safety

Data Sheet

1.4 Emergency telephone number

+ (65) 6542 9595 (Alert-SGS)

Other information : CARADOL is a trademark owned by Shell Trademark

Management B.V. and Shell Brands Inc. and used by affiliates

of Royal Dutch Shell plc.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification

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Based on available data this substance / mixture does not meet the classification criteria.

2.2 Label elements

GHS-Labelling

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

Hazard statements : PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS:

Not classified as a health hazard under GHS criteria.

ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under GHS criteria.

Precautionary statements : **Prevention:**

No precautionary phrases.

Response:

No precautionary phrases.

Storage:

No precautionary phrases.

Disposal:

No precautionary phrases.

2.3 Other hazards

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Propoxylated glycerol	25791-96-2	<= 100

SECTION 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.

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.

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If inhaled	: No treatment necessary under normal c If symptoms persist, obtain medical adv	
In case of skin contact	: Remove contaminated clothing. Flush e water and follow by washing with soap i If persistent irritation occurs, obtain med	f available.
In case of eye contact	 Flush eye with copious quantities of wat Remove contact lenses, if present and e rinsing. If persistent irritation occurs, obtain med 	easy to do. Continue
If swallowed	: In general no treatment is necessary un are swallowed, however, get medical ac	

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : 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.

No specific hazards under normal use conditions.

Skin irritation signs and symptoms may include a burning

sensation, redness, or swelling.

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

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

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Call a doctor or poison control center for guidance.

Treat symptomatically. Following cases of gross overexposure, investigation of liver, kidney and eye function may be advisable. Records of such incidents should be maintained

for future reference.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Large fires should only be fought by properly trained fire

fighters., Alcohol-resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used

for small fires only.

Unsuitable extinguishing : Do not use water in a jet.

media

5.2 Special hazards arising from the substance or mixture

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	Specific hazards during firefighting	:	Will only burn if enveloped in a pre-exis combustion products may include: Carb Unidentified organic and inorganic comparison monoxide.	oon dioxide
5.3 Adv	ice for firefighters			
	Special protective equipment for firefighters	:	Proper protective equipment including of gloves are to be worn; chemical resistant large contact with spilled product is exp Breathing Apparatus must be worn when a confined space. Select fire fighter's clarelevant Standards (e.g. Europe: EN46)	nt suit is indicated if ected. Self-Contained en approaching a fire in othing approved to
	Specific extinguishing methods	:	Standard procedure for chemical fires.	•
	Further information	:	Clear fire area of all non-emergency pe All storage areas should be provided wi fighting facilities. Keep adjacent containers cool by spray	th adequate fire

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Observe all relevant local and international regulations.

Avoid contact with skin, eyes and clothing.

Avoid inhaling vapour and/or mists.

Extinguish any naked flames. Do not smoke. Remove ignition

sources. Avoid sparks.

6.2 Environmental precautions

Environmental precautions : Remove all possible sources of ignition in the surrounding

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 materials for containment and cleaning up

Methods for 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

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	safely. Remove contaminated soil and For small liquid spills (< 1 drum), trans means to a labeled, sealable containe safe disposal. Allow residues to evapor appropriate absorbent material and discontaminated soil and dispose of safe Proper disposal should be evaluated by status of this material (refer to Section contamination from subsequent use a regulations governing disposal in the light	sfer by mechanical or for product recovery or orate or soak up with an spose of safely. Remove ly. oased on regulatory of 13), potential ond spillage, and

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.

SECTION 7: Handling and storage

General Precautions : Avo

: 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.

7.1 Precautions for safe handling

Advice on safe handling

: In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. Use local exhaust extraction over processing area. Avoid unintentional contact with isocyanates to prevent

uncontrolled polymerisation.

Avoid contact with skin, eyes and clothing.

Air-dry contaminated clothing in a well-ventilated area before

laundering.

Do not empty into drains. Handling Temperature:

Ambient.

When handling product in drums, safety footwear should be worn and proper handling equipment should be used.

Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks.

Product Transfer : Lines should be purged with nitrogen before and after product

transfer. Keep containers closed when not in use.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

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

Other data : Prevent all contact with water and with moist atmosphere.

Tanks must be clean, dry and rust-free. Prevent ingress of water. Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Nitrogen blanket recommended for large tanks (capacity 100 m3 or higher). Drums should be stacked to a

maximum of 3 high.

Storage period : 24 month(s)

Storage Temperature: Ambient.

Storage should be handled at temperatures such that viscosities are less than 500 cSt; typically at 25-50 °C. 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.

Packaging material : Suitable material: Stainless steel. For container paints, use

epoxy paint, zinc silicate paint.

Unsuitable material: Copper.Copper alloys.

7.3 Specific end use(s)

Specific use(s) : Not applicable

Ensure that all local regulations regarding handling and

storage facilities are followed.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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

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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

8.2 Exposure controls

Engineering measuresWhere material is heated, sprayed or mist formed, there is greater potential for airborne concentrations to be generated.

Adequate ventilation to control airborne concentrations.

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

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

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

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,

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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 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 nonperfumed 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.

Respiratory protection

: No respiratory protection is ordinarily required under normal

conditions of use.

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

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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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid.

Colour : Clear pale yellow

Odour : odourless

Odour Threshold : Data not available

pH : ca. 7

Melting / freezing point : Data not available

Boiling point/boiling range : > 200 °C

Flash point : Typical > 140 °C

Method: ASTM D93 (PMCC)

Evaporation rate : Data not available

Flammability (solid, gas) : Not applicable

Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : < 10 hPa

Relative vapour density : Data not available

Relative density : 1,03Method: ASTM D4052

Density : Typical 1.030 kg/m3 (20 °C)

Method: ASTM D4052

Solubility(ies)

Water solubility : Data not available
Partition coefficient: n- : Data not available

octanol/water

Auto-ignition temperature : Data not available

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : Typical 250 mPa.s (25 °C)

Method: ASTM D445

Viscosity, kinematic : Data not available

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Explosive properties : Classification Code: Not classified

Oxidizing properties : Not applicable

9.2 Other information

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.

: 672 g/mol Molecular weight

SECTION 10: Stability and reactivity

10.1 Reactivity

The product does not pose any further reactivity hazards in addition to those listed in the following sub-paragraph.

10.2 Chemical stability

No hazardous reaction is expected when handled and stored according to provisions, Hygroscopic.

10.3 Possibility of hazardous reactions

Hazardous reactions : Polymerises exothermically with di-isocyanates at ambient

The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of reaction partners is good or is supported by stirring or by the presence

of solvents.

Reacts with strong oxidising agents.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames, and sparks.

Product cannot ignite due to static electricity.

10.5 Incompatible materials

Materials to avoid : Avoid contact with isocyanates, copper and copper alloys,

zinc, strong oxidizing agents, and water.

10.6 Hazardous decomposition products

Hazardous decomposition : Unknown toxic products may be formed.

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products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Basis for assessment : Information given is based on data obtained from similar

substances. Information given is based on data obtained from

similar substances.

exposure

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

skin or eye contact, and accidental ingestion.

Acute toxicity

Product:

: LD 50 : > 2.000 mg/kg Acute oral toxicity

Remarks: Based on available data, the classification criteria

are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria

are not met.

Acute dermal toxicity : LD 50 : > 2.000 mg/kg

Remarks: Low toxicity:

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

Components:

Propoxylated glycerol:

Acute oral toxicity : LD 50 Rat, male and female: > 2.000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on available data, the classification criteria

are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria

are not met.

: LD 50 Rat, male and female: > 2.000 mg/kg Acute dermal toxicity

Method: OECD Test Guideline 402

Remarks: Based on available data, the classification criteria

are not met.

Skin corrosion/irritation

Product:

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

Components:

Propoxylated glycerol:

Species: Rabbit

Method: OECD Test Guideline 404

Remarks: Slightly irritating to skin., Insufficient to classify., Based on available data, the

classification criteria are not met.

Serious eye damage/eye irritation

Product:

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

Components:

Propoxylated glycerol:

Species: Rabbit

Method: OECD Test Guideline 405

Remarks: Slightly irritating., Insufficient to classify., Based on available data, the classification

criteria are not met.

Respiratory or skin sensitisation

Product:

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

Components:

Propoxylated glycerol:

Species: Guinea pig

Method: OECD Test Guideline 406

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

Germ cell mutagenicity

Product:

: Remarks: Based on available data, the classification criteria

are not met.

Components:

Propoxylated glycerol:

: Method: OECD Test Guideline 471 Genotoxicity in vitro

Remarks: Based on available data, the classification criteria

are not met.

: Method: OECD Test Guideline 473

Remarks: Based on available data, the classification criteria

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are not met.

: Method: OECD Test Guideline 476

Remarks: Based on available data, the classification criteria

are not met.

Remarks: Based on available data, the classification criteria

are not met.

Germ cell mutagenicity-

Assessment

: This product does not meet the criteria for classification in

categories 1A/1B.

Carcinogenicity

Product:

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

Components:

Propoxylated glycerol:

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

Material	GHS/CLP Carcinogenicity Classification
Propoxylated glycerol	No carcinogenicity classification.

Reproductive toxicity

Product:

Remarks: Based on available data, the classification criteria

are not met.

Components:

Propoxylated glycerol:

Species: Rat

Sex: male and female **Application Route: Oral**

Method: OECD Test Guideline 421

Remarks: Based on available data, the classification criteria

are not met.

Reproductive toxicity -: This product does not meet the criteria for classification in

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Assessment

categories 1A/1B.

STOT - single exposure

Product:

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

Components:

Propoxylated glycerol:

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:

Propoxylated glycerol:

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

Repeated dose toxicity

Components:

Propoxylated glycerol:

Rat, male and female: Application Route: Oral

Method: OECD Test Guideline 407

Target Organs: No specific target organs noted

Aspiration toxicity

Product:

Not an aspiration hazard.

Components:

Propoxylated glycerol:

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

Further information

Product:

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

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Components:

Propoxylated glycerol:

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

SECTION 12: Ecological information

12.1 Toxicity

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. 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.

Product:

Toxicity to fish (Acute

toxicity)

: LC50 : > 100 mg/l

Remarks: Based on available data, the classification criteria

are not met.

Practically non toxic:

Toxicity to daphnia and other

aquatic invertebrates (Acute

toxicity)

EC50 : > 100 mg/l

Remarks: Based on available data, the classification criteria

are not met.

Practically non toxic:

Toxicity to algae (Acute

toxicity)

: EC50: > 100 mg/l

Remarks: Practically non toxic:

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

Toxicity to fish (Chronic

toxicity)

: Remarks: Data not available

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: Remarks: Data not available

Toxicity to bacteria (Acute

toxicity)

: IC50 : > 100 mg/l

Remarks: Based on available data, the classification criteria

are not met.

Practically non toxic:

Components:

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Propoxylated glycerol:

Toxicity to fish (Acute

: LC50 (Leuciscus idus (Golden orfe)): > 1.000 mg/l

toxicity)

Exposure time: 96 h

Method: OECD Test Guideline 203 Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

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

Toxicity to daphnia and other aquatic invertebrates (Acute

: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h

toxicity)

Method: OECD Test Guideline 202 Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

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

Toxicity to algae (Acute

toxicity)

: EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201 Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

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

Toxicity to bacteria (Acute

toxicity)

EC10 (Activated sludge, domestic waste): > 10.000 mg/l

Exposure time: 3 h

Method: Test(s) equivalent or similar to OECD Guideline 209

Remarks: Practically non toxic:

LL/EL/IL50 > 100 mg/l

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

Toxicity to fish (Chronic

toxicity)

: Remarks: Data not available

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

: NOEC: >= 10 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Method: Information given is based on data obtained from

similar substances.

Remarks: NOEC/NOEL > 10 - <=100 mg/l

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Readily biodegradable.

Components:

Propoxylated glycerol:

Biodegradability : Biodegradation: 99 %

Exposure time: 28 d

Method: OECD Test Guideline 302B

Remarks: Inherently biodegradable., Oxidises rapidly by

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photo-chemical reactions in air.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

Partition coefficient: n-

octanol/water

: Remarks: Data not available

Components:

Propoxylated glycerol:

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

12.4 Mobility in soil

Product:

Mobility : Remarks: If the product enters soil, one or more constituents

will or may be mobile and may contaminate groundwater.

Components:

Propoxylated glycerol:

Mobility : Remarks: If product enters soil, it will be highly mobile and

may contaminate groundwater., Dissolves in water.

12.5 Results of PBT and vPvB assessment

Components:

Propoxylated glycerol:

Assessment : The substance does not fulfill all screening criteria for

persistence, bioaccumulation and toxicity and hence is not

considered to be PBT or vPvB.

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : 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.

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Contaminated packaging	Disposal should be in accordance we national, and local laws and regulat Local regulations may be more strir national requirements and must be Drain container thoroughly. After draining, vent in a safe place a Send to drum recoverer or metal reduispose in accordance with prevailing to a recognized collector or contract the collector or contractor should be	ions. Ingent than regional or complied with. away from sparks and fire. claimer. Ing regulations, preferably tor. The competence of

SECTION 14: Transport information

14.1 UN number

Local legislation

ADR : Not regulated as a dangerous good IMDG : Not regulated as a dangerous good IATA : Not regulated as a dangerous good

14.2 Proper shipping name

ADR : Not regulated as a dangerous good IMDG : Not regulated as a dangerous good IATA : Not regulated as a dangerous good

14.3 Transport hazard class

ADR : Not regulated as a dangerous good IMDG : Not regulated as a dangerous good IATA : Not regulated as a dangerous good

14.4 Packing group

ADR : Not regulated as a dangerous good IMDG : Not regulated as a dangerous good IATA : Not regulated as a dangerous good

14.5 Environmental hazards

ADR : Not regulated as a dangerous good : Not regulated as a dangerous good

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.

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

Pollution category : Z Ship type : 3

Product name : Glycerol, propoxylated

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Caradol MD2	250-10
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Additional Information

: This product may be transported under nitrogen blanketing. Nitrogen is an odourless and invisible gas. Exposure to nitrogen may cause asphyxiation or death. Personnel must observe strict safety precautions when involved with a confined space entry.

SECTION 15: Regulatory information

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

Other regulations : The regulatory information is not intended to be

comprehensive. Other regulations may apply to this material.

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

AICS : Listed DSL Listed **IECSC** : Listed **ENCS** Listed KECI : Listed **NZIoC** : Listed **PICCS** : Listed : Listed TSCA **TCSI** : Listed

SECTION 16: Other information

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.

ACGIH = American Conference of Governmental Industrial

Hygienists

ADR = European Agreement concerning the International

Carriage of Dangerous Goods by Road

AICS = Australian Inventory of Chemical Substances ASTM = American Society for Testing and Materials

BEL = Biological exposure limits

BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

CAS = Chemical Abstracts Service

CEFIC = European Chemical Industry Council CLP = Classification Packaging and Labelling

COC = Cleveland Open-Cup

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	DIN = Deutsches Institut fur Normung DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level DSL = Canada Domestic Substance List EC = European Commission EC50 = Effective Concentration fifty ECETOC = European Center on Ecotox Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Echemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and New Chinventory EWC = European Waste Code GHS = Globally Harmonised System of Labelling of Chemicals IARC = International Agency for Resear IATA = International Air Transport Assocics0 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerou INV = Chinese Chemicals Inventory IP346 = Institute of Petroleum test metidetermination of polycyclic aromatics DMKECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty LD50 = Lethal Dose fifty per cent. LL/EL/IL = Lethal Loading/Effective Load LL50 = Lethal Loading fifty MARPOL = International Convention for Pollution From Ships NOEC/NOEL = No Observed Effect ConObserved Effect Level OE_HPV = Occupational Exposure - HigPBT = Persistent, Bioaccumulative and PICCS = Philippine Inventory of Chemic Substances PNEC = Predicted No Effect Concentrat REACH = Registration Evaluation And A Chemicals RID = Regulations Relating to Internation Dangerous Goods by Rail SKIN_DES = Skin Designation STEL = Short term exposure limit TRA = Targeted Risk Assessment TSCA = US Toxic Substances Control ATWA = Time-Weighted Average vPvB = very Persistent and very Bioaccumulative and very	icology and xisting Commercial memical Substances Classification and ch on Cancer ciation us Goods hod N° 346 for the MSO-extractables tory ding/Inhibitory loading the Prevention of mentration / No gh Production Volume Toxic als and Chemical ion Authorisation Of nal Carriage of

Further information

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Training advice	: Provide adequate information, instruction operators.	and training for
Other information	: A vertical bar () in the left margin indicate from the previous version.	es an amendment
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but not limited sources of information (e.g. toxicological Health Services, material suppliers' data, IUCLID date base, EC 1272 regulation, e	data from Shell CONCAWE, EU

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.