

# SAFETY DATA SHEET

This Safety data sheet is subject to the Egyptian standard ES 8398 "Safety data sheet for chemical products" According to ISO 11014 /2009

**CARADOL GB250-200**

Print Date 09.02.2024

Revision Date 02.02.2024

Version 1.1

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

### 1.1 Product identifier

Trade name : CARADOL GB250-200  
Product code : U3281  
CAS-No. : 25791-96-2  
  
Synonyms : Polyol

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

Use of the Substance/Mixture : Use for the manufacture of polyurethane products.  
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  
Contact for Safety Data Sheet :

### 1.4 Emergency telephone number

+ (65) 6542 9595 (Alert-SGS)  
+31 (0)10 231 7393  
UAT for SPS2020 - New ER number

Other information : CARADOL is a trademark owned by Shell Trademark Management B.V. and Shell Brands Inc. and used by affiliates of 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-Labeling

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 conditions of use.<br>If symptoms persist, obtain medical advice.  |
| In case of skin contact | : Remove contaminated clothing. Flush exposed area with water and follow by washing with soap if available.<br>If persistent irritation occurs, obtain medical attention.          |
| In case of eye contact  | : Flush eye with copious quantities of water.<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>If persistent irritation occurs, obtain medical attention. |
| If swallowed            | : In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.   |

#### 4.2 Most important symptoms and effects, both acute and delayed

- |          |   |
|----------|---|
| Symptoms | : Not considered to be an inhalation hazard under normal conditions of use.<br>Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.<br>No specific hazards under normal use conditions.<br>Skin irritation signs and symptoms may include a burning sensation, redness, or swelling.<br>Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.<br>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.<br>Treat symptomatically. Following cases of gross over-exposure, 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 media | : Do not use water in a jet.   |

### 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-existing fire. Hazardous combustion products may include: Carbon dioxide  
Unidentified organic and inorganic compounds. Toxic gases  
Carbon monoxide.

### 5.3 Advice for firefighters

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).

Specific extinguishing methods : Standard procedure for chemical fires.

Further information : Clear fire area of all non-emergency personnel.  
All storage areas should be provided with adequate fire fighting facilities.  
Keep adjacent containers cool by spraying with water.

## 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 area.  
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 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.

Proper disposal should be evaluated based on regulatory status of this material (refer to Section 13), potential contamination from subsequent use and spillage, and regulations governing disposal in the local area.

### 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

- : 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	: <b>Suitable material:</b> Stainless steel.For container paints, use epoxy paint, zinc silicate paint. <b>Unsuitable material:</b> Copper.Copper alloys.

### 7.3 Specific end use(s)

Specific use(s)	: Not applicable
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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 Sécurité, (INRS), France <http://www.inrs.fr/accueil>

## 8.2 Exposure controls

**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.

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.

Eye 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 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.
- 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;Colourless, Clear;Pink

Odour : odourless

Odour Threshold : Not relevant

pH : ca. 7

Melting point/freezing point : Data not available

Boiling point/boiling range : 290 °C

Flash point : > 140 °C  
Method: ASTM D93 (PMCC)

Evaporation rate : Data not available

#### Flammability

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit : Data not available

Lower explosion limit : Data not available

Vapour pressure : Data not availableData not available

Relative vapour density : Data not available

Relative density : 1,03Method: ASTM D4052

Density : 1.033 kg/m3 (20 °C)  
Method: ASTM D4052

#### Solubility(ies)

Water solubility : Miscible.

Solubility in other solvents : Data not available

Partition coefficient: n-octanol/water : Data not available

Auto-ignition temperature : 305 °C

Decomposition temperature : Data not available

#### Viscosity

Viscosity, dynamic : 305 mPa.s (25 °C)

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Method: ASTM D445

Viscosity, kinematic : Data not available

## 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.

Molecular weight : 672 g/mol

## 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 temperatures.  
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 products : Unknown toxic products may be formed.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Basis for assessment : Information given is based on data obtained from similar substances.  
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).
- Information on likely routes of exposure : Exposure may occur via inhalation, ingestion, skin absorption, skin or eye contact, and accidental ingestion.

### Acute toxicity

#### Product:

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

Genotoxicity in vitro

: Method: OECD Test Guideline 471

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.  
Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

### 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:

### **Propoxylated glycerol :**

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Toxicity to fish (Acute toxicity)	: LC50 (Leuciscus idus (Golden orfe)): > 1.000 mg/l 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 toxicity)	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h 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 photo-chemical reactions in air.



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### 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.

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

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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.  
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.

Local legislation

## SECTION 14: Transport information

### 14.1 UN number

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  
IMDG : 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 Maritime transport in bulk according to IMO instruments

Pollution category : Z  
Ship type : 3  
Product name : Glycerol Propoxylated

**Additional Information** : This product may be transported under nitrogen blanketing.  
Nitrogen is an odourless and invisible gas. Exposure to

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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.

## 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:**

DSL	: Listed
TSCA	: Listed
ENCS	: Listed
IECSC	: Listed
NZIoC	: Listed
PICCS	: Listed
KECI	: Listed
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  
DIN = Deutsches Institut für Normung  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level

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DSL = Canada Domestic Substance List  
EC = European Commission  
EC50 = Effective Concentration fifty  
ECETOC = European Center on Ecotoxicology and Toxicology Of Chemicals  
ECHA = European Chemicals Agency  
EINECS = The European Inventory of Existing Commercial Chemical Substances  
EL50 = Effective Loading fifty  
ENCS = Japanese Existing and New Chemical Substances Inventory  
EWC = European Waste Code  
GHS = Globally Harmonised System of Classification and Labelling of Chemicals  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Inhibitory Concentration fifty  
IL50 = Inhibitory Level fifty  
IMDG = International Maritime Dangerous Goods  
INV = Chinese Chemicals Inventory  
IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables  
KECI = Korea Existing Chemicals Inventory  
LC50 = Lethal Concentration fifty  
LD50 = Lethal Dose fifty per cent.  
LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading  
LL50 = Lethal Loading fifty  
MARPOL = International Convention for the Prevention of Pollution From Ships  
NOEC/NOEL = No Observed Effect Concentration / No Observed Effect Level  
OE\_HP V = Occupational Exposure - High Production Volume  
PBT = Persistent, Bioaccumulative and Toxic  
PICCS = Philippine Inventory of Chemicals and Chemical Substances  
PNEC = Predicted No Effect Concentration  
REACH = Registration Evaluation And Authorisation Of Chemicals  
RID = Regulations Relating to International Carriage of Dangerous Goods by Rail  
SKIN\_DES = Skin Designation  
STEL = Short term exposure limit  
TRA = Targeted Risk Assessment  
TSCA = US Toxic Substances Control Act  
TWA = Time-Weighted Average  
vPvB = very Persistent and very Bioaccumulative

### Further information

Training advice

: Provide adequate information, instruction and training for operators.

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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 data base, EC 1272 regulation, etc).

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