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

#### 1.1 Product identifier

Trade name : CARADOL EP500-11

Product code : U1705

Synonyms : Polyether 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

Telefax

Contact for Safety Data

Sheet

## 1.4 Emergency telephone 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**

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

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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**

#### 3.2 Mixtures

## **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Propoxylated Sorbitol	52625-13-5		50 - 60
Propoxylated glycerol	25791-96-2		40 - 50

#### **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.

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

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.

If persistent irritation occurs, obtain medical attention.

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

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

rinsina.

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.

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

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

#### SAFFTY DATA SHFFT

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Specific extinguishing methods Further information	<ul> <li>a confined space. Select fire fighter's relevant Standards (e.g. Europe: EN4)</li> <li>Standard procedure for chemical fires</li> <li>Clear fire area of all non-emergency pall storage areas should be provided righting facilities.</li> <li>Keep adjacent containers cool by spran</li> </ul>	169).  Dersonnel.  With 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 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.

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#### 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.

## 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.

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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.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Propoxylated glycerol : No DNEL value has been established.

No DNEL value has been established.

**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/

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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 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, 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

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	glove material. Glove thickness should be than 0.35 mm depending on the glove meditability and durability of a glove is dependent of contact, or glove material, dexterity. Always seek as suppliers. Contaminated gloves should be hygiene is a key element of effective har only be worn on clean hands. After using should be washed and dried thoroughly, perfumed moisturizer is recommended.	nake and model. pendent on usage, chemical resistance of dvice from glove pe replaced. Personal and care. Gloves must g gloves, hands	
Skin and body protection	<ul> <li>Skin protection is not ordinarily required work clothes.</li> <li>It is good practice to wear chemical resis</li> </ul>	·	
Respiratory protection	<ul> <li>No respiratory protection is ordinarily reconditions of use.</li> <li>In accordance with good industrial hygie precautions should be taken to avoid breen</li> </ul>	ene practices,	
Hygiene measures	: Wash hands before eating, drinking, smotoilet. Launder contaminated clothing be		
Environmental exposure controls			
General advice	<ul> <li>Local guidelines on emission limits for verification.</li> <li>Minimise release to the environment. An assessment must be made to ensure content environmental legislation.</li> <li>Information on accidental release measures section 6.</li> </ul>	xhaust air containing n environmental empliance with local	

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Appearance : Viscous liquid.

Colour : clear

Odour : odourless Odour Threshold : Not relevant

рΗ : ca. 9

Melting point/freezing point : Data not available Boiling point/boiling range : Data not available

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Flash point Typical > 100 °C

Method: ASTM D93 (PMCC)

: Data not available Evaporation rate

Flammability

Flammability (solid, gas) : Not applicable

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit : Data not available Lower explosion limit : Data not available Vapour pressure : ca. 0,003 Pa (20 °C)

Relative vapour density : Data not available Relative density : Data not available

: ca. 1.108 kg/m3 (20 °C) Density

Method: ASTM D4052

Solubility(ies)

Water solubility : Miscible. Partition coefficient: n-: log Pow: < 1

octanol/water

Auto-ignition temperature 300 °C

Decomposition temperature : < 300 °C

Viscosity

Viscosity, dynamic Typical 5,380 mPa.s (20 °C)

Method: ASTM D445

Viscosity, kinematic : Data not available : Not classified Explosive properties

Oxidizing properties : Not applicable

9.2 Other information

Surface tension : Data not available

: Electrical conductivity: > 10,000 pS/m, A number of factors, Conductivity

> for example liquid temperature, presence of contaminants, and anti-static additives can greatly influence the conductivity

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of a liquid, This material is not expected to be a static

accumulator.

Molecular weight : Data not available

## **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.

### **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).

exposure

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

skin or eye contact, and accidental ingestion.

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## **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.

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

Remarks: Low toxicity

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

**Components:** 

**Propoxylated Sorbitol:** 

Acute oral toxicity : LD50 Rat, male and female: > 2.000 mg/kg

Method: OECD Test Guideline 420

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: Low toxicity

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

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:**

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

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#### **Components:**

## **Propoxylated Sorbitol:**

Species: Rabbit

Method: OECD Test Guideline 404

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

criteria are not met.

## 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 Sorbitol:**

Species: Rabbit

Method: OECD Test Guideline 405

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

criteria are not met.

#### 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 Sorbitol:**

Species: Guinea pig

Method: OECD Test Guideline 406

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

#### Propoxylated glycerol:

Species: Guinea pig

Method: OECD Test Guideline 406

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

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## Germ cell mutagenicity

### **Product:**

: Remarks: Based on available data, the classification criteria

are not met.

## **Components:**

## **Propoxylated Sorbitol:**

Genotoxicity in vitro : 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.

#### 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

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 Sorbitol:**

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

## Propoxylated glycerol:

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

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

## Reproductive toxicity

#### **Product:**

Remarks: Based on available data, the classification criteria

are not met.

## Components:

## **Propoxylated Sorbitol:**

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.

Effects on foetal : Species: Mouse, female development

Application Route: Oral

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

Remarks: Based on available data, the classification criteria

are not met.

Reproductive toxicity -

: This product does not meet the criteria for classification in

Assessment

categories 1A/1B.

## 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

Assessment categories 1A/1B.

## STOT - single exposure

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### **Product:**

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

#### Components:

## **Propoxylated Sorbitol:**

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

## 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 Sorbitol:**

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

### Propoxylated glycerol:

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

## Repeated dose toxicity

## **Components:**

#### **Propoxylated Sorbitol:**

Rat, male and female: Application Route: Oral

Method: OECD Test Guideline 407

Target Organs: No specific target organs noted

#### 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 Sorbitol:**

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

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## 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.

## **Components:**

## **Propoxylated Sorbitol:**

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

### 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

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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 Sorbitol:** 

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 (Acartia tonsa): > 1.000 mg/l

Exposure time: 48 h

Method: Test(s) equivalent or similar to OECD 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 (Skeletonema costatum (marine diatom)): > 1.000 mg/l

Exposure time: 72 h Method: ISO 10253

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)

: EC50 (Activated sludge): > 1.000 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: OECD Test Guideline 211

Remarks: Based on available data, the classification criteria

are not met.

Propoxylated glycerol:

Toxicity to fish (Acute

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

toxicity)

Exposure time: 96 h

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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)

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: Remarks: Data not available

: 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 Sorbitol:** 

Biodegradability : Biodegradation: 1,9 %

Exposure time: 28 d

Method: OECD Test Guideline 302A

Remarks: Not readily biodegradable., Oxidises rapidly by

photo-chemical reactions in air.

Propoxylated glycerol:

Biodegradability : Biodegradation: 99 %

Exposure time: 28 d

Method: OECD Test Guideline 302B

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Remarks: Inherently biodegradable., Oxidises rapidly by

photo-chemical reactions in air.

#### 12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: Does not bioaccumulate significantly.

Partition coefficient: n-

octanol/water

: log Pow: < 1

**Components:** 

**Propoxylated Sorbitol:** 

Bioaccumulation : Remarks: Does not have the potential to bioaccumulate

significantly.

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 Sorbitol:** 

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

will or may be mobile and may contaminate groundwater.,

Dissolves in water.

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 Sorbitol:

Assessment : The substance does not fulfill all screening criteria for

persistence, bioaccumulation and toxicity and hence is not

considered to be PBT or vPvB.

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

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Product	<ul> <li>Recover or recycle if possible.</li> <li>It is the responsibility of the waste generator to determine toxicity and physical properties of the material generated t determine the proper waste classification and disposal methods in compliance with applicable regulations.</li> </ul>	
	Do not dispose into the environment, in courses.  Waste product should not be allowed to water.	
	Disposal should be in accordance with national, and local laws and regulation Local regulations may be more stringe national requirements and must be con	s. ent than regional or
Contaminated packaging	<ul> <li>Drain container thoroughly.         After draining, vent in a safe place awas Send to drum recoverer or metal reclation. Dispose in accordance with prevailing to a recognized collector or contractor, the collector or contractor should be estimated.     </li> </ul>	imer. regulations, preferably The competence of
Local legislation		

## **SECTION 14: Transport information**

1	4.1	U	Νr	าเมท	nber

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

14.2 Proper shipping name

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

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,

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> 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 : Not applicable Ship type : Not applicable Product name : Not applicable

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:

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

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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 fur Normuna

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 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 HPV = 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

RID = Regulations Relating to International Carriage of

Dangerous Goods by Rail

SKIN DES = Skin Designation

STEL = Short term exposure limit

TRA = Targeted Risk Assessment

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	TSCA = US Toxic Substances Control Ac TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccu		
Further information			
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.