SAFFTY DATA SHFFT

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

Ethylene Glycol Fiber Grade

Print Date 09.07.2025 Revision Date 08.07.2025 Version 1.0

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

1.1 Product identifier

Trade name : Ethylene Glycol Fiber Grade

Product code : U1285 CAS-No. : 107-21-1

Other means of identification Dihydroxy ethane 1,2, Ethane diol 1,2, Ethylene Glycol, Glycol,

MEG

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

Use of the : Chemical intermediate.

Substance/Mixture

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

above without first seeking the advice of the supplier., Do not

use in the manufacture or preparation of foods or

pharmaceuticals., Keep out of reach of children and pets., Do not use in theatrical fogs or other artificial smoke generator applications., Do not use in aircraft deicing applications. This product must not be used in applications other than those

listed in Section 1 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.

: +971 4 405 4400 Telephone 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

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification

Acute toxicity (Oral)

Specific target organ toxicity -

repeated exposure

: Category 4 : Category 2 (Kidney)

2.2 Label elements

GHS-Labelling

Hazard pictograms





Signal word

PHYSICAL HAZARDS: Hazard statements

Not classified as a physical hazard under GHS criteria.

HEALTH HAZARDS: H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or

repeated exposure.

ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under GHS criteria.

Precautionary statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER/

doctor if you feel unwell. P330 Rinse mouth.

P314 Get medical advice/ attention if you feel unwell.

Storage:

No precautionary phrases.

Disposal:

P501 Dispose of contents and container to appropriate waste

site or reclaimer in accordance with local and national

regulations.

2.3 Other hazards

Inhalation of vapours or mists may cause irritation to the respiratory system.

Slightly irritating to respiratory system.

Slightly irritating to the skin.

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Slightly irritating to the eye.

Vapours may be irritating to the eye.

SECTION 3: Composition/information on ingredients

3.1 Substances

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
ethanediol	107-21-1	99- 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.

If inhaled : Remove to fresh air. If rapid recovery does not occur,

transport to nearest medical facility for additional treatment.

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.

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

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

rinsing.

If persistent irritation occurs, obtain medical attention.

If swallowed : If swallowed, do not induce vomiting: transport to nearest

medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Kidney toxicity may be recognized by blood in the urine or

increased or decreased urine flow. Other signs and symptoms can include nausea, vomiting, abdominal cramps, diarrhoea, lumbar pain shortly after ingestion, and possibly narcosis and

leath.

Not considered to be an inhalation hazard under normal

conditions of use.

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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.

May cause significant renal, respiratory, and CNS toxicity.

May cause significant acidosis.

The preferred treatment is immediate transportation to a medical facility and use of appropriate treatment including possible administration of activated charcoal, gastric lavage

and or gastric aspiration. If none of the above are

immediately available and a delay of more than one hour is anticipated before such medical attention can be obtained, induction of vomiting may be appropriate using IPECAC syrup (Contraindicated if there are any signs of CNS depression). This should be considered on a case by case basis following specialist advice. Specific other treatments may include ethanol therapy, fomepizole, treatment of acidosis and haemodialysis. Seek specialist advice without delay.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam, water spray or fog. Dry chemical

powder, carbon dioxide, sand or earth may be used for small

fires only.

Unsuitable extinguishing

media

: Do not use water in a jet.

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Material will not burn unless preheated. Carbon monoxide may be evolved if incomplete combustion occurs. Containers exposed to intense heat from fires should be cooled with large quantities of water.

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

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Specific extinguishing methods Further information	 a confined space. Select fire fighter's clorelevant Standards (e.g. Europe: EN469) Standard procedure for chemical fires. Evacuate the area of all non-essential per Keep adjacent containers cool by spraying 	9). ersonnel.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :

Observe all relevant local and international regulations. Notify authorities if any exposure to the general public or the

environment occurs or is likely to occur.

Local authorities should be advised if significant spillages

cannot be contained.

Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Environmental precautions : Prevent from spreading or entering into drains, ditches or

rivers by using sand, earth, or other appropriate barriers. Use appropriate containment to avoid environmental

contamination.

Ventilate contaminated area thoroughly.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain run-off from residue flush and dispose of properly.

Soak up residue with an absorbent such as clay, sand or other

suitable material.

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.

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

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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 : Use local exhaust extraction over processing area.

Handle and open container with care in a well-ventilated area.

Do not empty into drains.

When handling product in drums, safety footwear should be

worn and proper handling equipment should be used. Handling Temperature:

Ambient.

Product Transfer : Keep containers closed when not in use. Do not pressurize

drum containers to empty.

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 : Tanks must be clean, dry and rust-free. Keep container tightly

closed. Must be stored in a diked (bunded) well- ventilated area, away from sunlight, ignition sources and other sources of heat. Cleaning, inspection and maintenance of storage

tanks is a specialist operation, which requires the

implementation of strict procedures and precautions. Drums

should be stacked to a maximum of 3 high. Storage

Temperature: Ambient.

Packaging material : Suitable material: Stainless steel. Mild steel. Carbon steel

Unsuitable material: Data not available

Container Advice : Containers, even those that have been emptied, can contain

explosive vapours. Do not cut, drill, grind, weld or perform

similar operations on or near containers.

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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:

ethanediol : End Use: Workers

Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 106 mg/kg/day End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 35 mg/m3 End Use: Consumers Exposure routes: Dermal

Potential health effects: Long-term systemic effects

Value: 53 mg/kg/day End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term local effects

Value: 7 mg/m3

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

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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 measures 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:

Adequate ventilation to control airborne concentrations.

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

Eye washes and showers for emergency use.

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 gloves. Incidental contact/Splash protection: PVC or

neoprene rubber gloves. For continuous contact we

recommend gloves with breakthrough time of more than 240 minutes with preference for > 480 minutes where suitable gloves can be identified. For short-term/splash protection we

recommend the same but recognize that suitable gloves

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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

: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use and meeting relevant legislation. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus. Where air-filtering respirators are suitable, select an

appropriate combination of mask and filter.

If air-filtering respirators are suitable for conditions of use: Select a filter suitable for the combination of organic gases and vapours and particles [Type A/Type P boiling point >65°C

(149°F)].

Thermal hazards : Not applicable

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

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environmental legislation.

Information on accidental release measures are to be found in

section 6.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

: Slightly viscous liquid. **Appearance**

Colour : colourless

Odour : mild

Odour Threshold Data not available рΗ : Data not available

: -13 °C Melting / freezing point

: 196 - 200 °C Boiling point/boiling range

: 115 °C Flash point

Method: Pensky-Martens closed cup

Evaporation rate : 0.01

Method: ASTM D 3539, nBuAc=1

Flammability

Flammability (solid, gas) : Not applicable

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit : 28 %(V)

Lower explosion limit : 3,2 %(V)

Vapour pressure : < 10 Pa (20 °C)

Relative vapour density 2,14(Air = 1.0): 1,1155 (20 °C) Relative density

Method: ASTM D4052

: 1.113 kg/m3 (20 °C) Density

Method: ASTM D4052

Solubility(ies)

Water solubility : completely soluble

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Partition coefficient: n-

octanol/water

: log Pow: -1,93 (20 °C)

: 398 °C Auto-ignition temperature

Decomposition temperature : Data not available

Viscosity

: 16,1 mPa.s (25 °C) Viscosity, dynamic

Method: ASTM D445

Viscosity, kinematic : 24,8 mm2/s (20 °C)

Method: ASTM D445

Explosive properties : Not applicable Oxidizing properties : 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 : 62 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, Oxidises on contact with air.

10.3 Possibility of hazardous reactions

: None known. Hazardous reactions

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

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Product cannot ignite due to static electricity.

10.5 Incompatible materials

Materials to avoid : Strong oxidising agents.

> Strong acids. Strong bases.

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Thermal decomposition is highly dependent on conditions. A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide, sulphur oxides and unidentified organic compounds will be evolved when this material undergoes combustion or thermal or oxidative

degradation.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Basis for assessment : Information given is based on product testing.

> 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

Skin and eye contact are the primary routes of exposure although exposure may occur through inhalation or following

accidental ingestion.

Acute toxicity

Components:

ethanediol:

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

Method: Acceptable non-standard method.

Remarks: Harmful if swallowed.

There is a marked difference in acute oral toxicity between rodents and man, man being more susceptible than rodents. The estimated fatal dose for man is 100 milliliters (1/2 cup). This material has also been shown to be toxic and potentially

lethal by ingestion to cats and dogs.

Acute inhalation toxicity LC 50 Rat, male and female: > 2,5 mg/l

> Exposure time: 6 h Test atmosphere: Aerosol Method: Literature data

Remarks: LC50 > 1.0 - <= 5.0 mg/l

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> LC50 greater than near-saturated vapour concentration. Based on available data, the classification criteria are not met.

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

Method: Literature data

Remarks: Based on available data, the classification criteria

are not met.

Skin corrosion/irritation

Components:

ethanediol: Species: Rabbit

Method: Acceptable non-standard method.

Remarks: Slightly irritating to skin., Insufficient to classify.

Serious eye damage/eye irritation

Components:

ethanediol:

Species: Rabbit

Method: Acceptable non-standard method.

Remarks: Slightly irritating to the eye., Insufficient to classify.

Respiratory or skin sensitisation

Components:

ethanediol:

Species: Guinea pig Method: Literature data

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

Germ cell mutagenicity

Components:

ethanediol:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Remarks: Based on data from similar materials

: Method: Acceptable non-standard method. Remarks: Based on data from similar materials

: Method: Literature data

Remarks: Based on data from similar materials

: Test species: RatMethod: Literature data

Remarks: Based on available data, the classification criteria

are not met.

Germ cell mutagenicity-: This product does not meet the criteria for classification in

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Assessment categories 1A/1B.

Carcinogenicity

Components:

ethanediol:

Species: Mouse, (male and female)

Application Route: Oral Method: Literature data

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

Material	GHS/CLP Carcinogenicity Classification
ethanediol	No carcinogenicity classification.

Reproductive toxicity

Components:

ethanediol:

Species: Rat

Sex: male and female Application Route: Oral

Method: Literature data

Remarks: Based on available data, the classification criteria

are not met.

Effects on foetal : Species: Rat, male and female

development Application Route: Oral Method: Literature data

Remarks: Based on available data, the classification criteria

are not met., Causes foetotoxicity in animals; considered to be

secondary to maternal toxicity.

Reproductive toxicity -

: This product does not meet the criteria for classification in

Assessment

categories 1A/1B.

STOT - single exposure

Components:

ethanediol:

Remarks: Inhalation of vapours or mists may cause irritation to the respiratory system., Based on available data, the classification criteria are not met., Ingestion may cause drowsiness and dizziness.

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STOT - repeated exposure

Components:

ethanediol:

Exposure routes: Oral Target Organs: Kidney

Remarks: May cause damage to organs or organ systems through prolonged or repeated

exposure.

Repeated dose toxicity

Components:

ethanediol:

Rat, male:

Application Route: Oral

Method: Test(s) equivalent or similar to OECD Test Guideline 408

Target Organs: Kidney

Aspiration toxicity

Components:

ethanediol:

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

Further information

Components:

ethanediol:

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

SECTION 12: Ecological information

12.1 Toxicity

Basis for assessment : Information given is based on product testing.

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

individual component(s).

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Components: ethanediol:

Toxicity to fish (Acute

toxicity)

: LC50 (Pimephales promelas (fathead minnow)): 72.860 mg/l

Exposure time: 96 h

Method: Other guideline method. Remarks: Practically non toxic:

LC/EC/IC50 > 100 mg/l

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:

LC/EC/IC50 > 100 mg/l

Toxicity to algae (Acute

toxicity)

: EC50 (Pseudokirchneriella subcapitata (algae)): 6.500 -

13.000 mg/l

Exposure time: 96 h

Method: Other guideline method. Remarks: Practically non toxic:

LC/EC/IC50 > 100 mg/l

Toxicity to bacteria (Acute

toxicity)

EC20 (Activated sludge, domestic waste): > 1.995 mg/l

Exposure time: 0,5 h

Method: Other guideline method. Remarks: Practically non toxic:

LC/EC/IC50 > 100 mg/l

Toxicity to fish (Chronic

toxicity)

: NOEC: 15.380 mg/l Exposure time: 7 d

Species: Pimephales promelas (fathead minnow)

Method: Other guideline method. Remarks: NOEC/NOEL > 100 mg/l

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC: 8.590 mg/l Exposure time: 7 d

Species: Chironomus sp. (midge) Method: Other guideline method.

Remarks: NOEC/NOEL > 100 mg/l

12.2 Persistence and degradability

Components: ethanediol:

Biodegradability : Biodegradation: 90 - 100 %

Exposure time: 10 d

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

12.3 Bioaccumulative potential

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Product:

Partition coefficient: n-

octanol/water

: log Pow: -1,93 (20 °C)

<u>Components:</u> ethanediol:

Bioaccumulation : Remarks: Does not have the potential to bioaccumulate

significantly.

12.4 Mobility in soil

Components: ethanediol:

Mobility : Remarks: Disperses in water., If product enters soil, one or

more constituents will be highly mobile and may contaminate

groundwater.

12.5 Results of PBT and vPvB assessment

Components: ethanediol:

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

Components: ethanediol:

Additional ecological

information

: Does not have ozone depletion potential.

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.

Remove all packaging for recovery or waste disposal.

Waste product should not be allowed to contaminate soil or ground water, or be disposed of into the environment.

Do not dispose of tank water bottoms by allowing them to drain into the ground. This will result in soil and groundwater

contamination.

Do not dispose into the environment, in drains or in water

courses.

Waste arising from a spillage or tank cleaning should be

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	disposed of in accordance with prevail preferably to a recognised collector or competence of the collector or contract established beforehand.	contractor. The
	Disposal should be in accordance with applicable regional national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.	
	MARPOL - see International Convention Pollution from Ships (MARPOL 73/78) technical aspects at controlling pollution	which provides
Contaminated packaging	: Dispose in accordance with prevailing to a recognized collector or contractor the collector or contractor should be ex	. The competence of

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 : 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.

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Ethylene Glycol Fiber Grade

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14.7 Maritime transport in bulk according to IMO instruments

Pollution category : Z Ship type : 3

Product name : Ethylene glycol

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

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

confined space entry.

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 **IECSC** Listed **ENCS** : Listed KECI : Listed **NZIoC** : Listed **PICCS** : Listed **TSCA** : 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

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Ethylene Gly		ol Fiber Grade
Print Date 09.07.2025	Revision Date 08.07.2025	Version 1.0
	CAS = Chemical Abstracts Service CEFIC = European Chemical Industry Cou CLP = Classification Packaging and Label COC = Cleveland Open-Cup 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 Ecotoxical Toxicology Of Chemicals ECHA = European Chemicals Agency EINECS = The European Inventory of Exist Chemical Substances EL50 = Effective Loading fifty ENCS = Japanese Existing and New Cherlinventory EWC = European Waste Code GHS = Globally Harmonised System of Clabelling of Chemicals IARC = International Agency for Research IATA = International Air Transport Associat IC50 = Inhibitory Concentration fifty IL50 = Inhibitory Level fifty IMDG = International Maritime Dangerous	ology and sting Commercial mical Substances assification and on Cancer

KECI = Korea Existing Chemicals Inventory LC50 = Lethal Concentration fifty

INV = Chinese Chemicals Inventory

LD50 = Lethal Dose fifty per cent.

LL/EL/IL = Lethal Loading/Effective Loading/Inhibitory loading LL50 = Lethal Loading fifty

IP346 = Institute of Petroleum test method N° 346 for the determination of polycyclic aromatics DMSO-extractables

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 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

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	Ethylene Glyco	I Fiber Grade
Print Date 09.07.2025	Revision Date 08.07.2025	Version 1.0
	TWA = Time-Weighted Average vPvB = very Persistent and very Bioaccum	ulative
Further information		
Training advice	: Provide adequate information, instruction a operators.	and training for
Other information	: A vertical bar () in the left margin indicates from the previous version.	an amendment
Sources of key data used to compile the Safety Data Sheet	: The quoted data are from, but not limited to sources of information (e.g. toxicological da Health Services, material suppliers' data, C IUCLID date base, EC 1272 regulation, etc.	ata 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.