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# **Ethylene Glycol Fiber Grade**

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#### **SECTION 1. IDENTIFICATION**

Product name Ethylene Glycol Fiber Grade

Product code : U1286

CAS-No. : 107-21-1

# Manufacturer or supplier's details

Manufacturer/Supplier : Shell CAPSA

Av. Roque Saenz Peña 788

Buenos Aires, 1383

Argentina

: (+54 11) 4130-2168 Telephone

Telefax : (+54 11) 4130-2180

Contact for Safety Data Sheet

Emergency telephone number : Locais: (+11 15) 4970-7391 / 4970-7390 / 5062-6601 / 4973-

7368; Internacionais: (+54 911) 4970-7391 / 4970-7390 /

5062/6601 / 4973-7

## Recommended use of the chemical and restrictions on use

Recommended use : Chemical intermediate.

: This product must not be used in applications other than the Restrictions on use

above without first seeking the advice of the supplier.

Do not use in the manufacture or preparation of foods or phar-

maceuticals.

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 suppli-

er.

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Acute toxicity (Oral) : Category 4

Specific target organ toxicity - : Category 2 (Kidney)

repeated exposure

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#### **GHS** label elements

Hazard pictograms





Signal word : Warning

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 (Kidney) through pro-

longed 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/ doc-

tor if you feel unwell.

P314 Get medical advice/ attention if you feel unwell.

P330 Rinse mouth.

Storage:

No precautionary phrases.

Disposal:

P501 Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regula-

tions.

# Other hazards which do not result in classification

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

Slightly irritating to respiratory system.

Slightly irritating to the skin.

Slightly irritating to the eye.

Vapours may be irritating to the eye.

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

# **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (% w/w)
ethanediol	107-21-1	Acute Tox.4; H302 STOT RE2; H373	>= 99.9 - <= 100

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For explanation of abbreviations see section 16.

#### **SECTION 4. FIRST-AID MEASURES**

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

conditions.

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

transport to nearest medical facility for additional treatment.

: Remove contaminated clothing. Flush exposed area with wa-In case of skin contact

> ter and follow by washing with soap if available. If persistent irritation occurs, obtain medical attention.

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

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

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.

Most important symptoms and effects, both acute and

delayed

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 death.

Not considered to be an inhalation hazard under normal con-

ditions of use.

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 sen-

sation, redness, or swelling.

Eye irritation signs and symptoms may include a burning sen-

sation, redness, swelling, and/or blurred vision.

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

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

appropriate personal protective equipment according to the

incident, injury and surroundings.

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

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

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> 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. FIRE-FIGHTING MEASURES**

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

der, carbon dioxide, sand or earth may be used for small fires

Unsuitable extinguishing

media

: Do not use water in a jet.

Specific hazards during fire-

fighting

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.

Specific extinguishing meth-

ods

Standard procedure for chemical fires.

Evacuate the area of all non-essential personnel. Keep adjacent containers cool by spraying with water.

Special protective equipment

for firefighters

Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled product is expected. Self-Contained

Breathing Apparatus must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to

relevant Standards (e.g. Europe: EN469).

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protec: : tive equipment and emer-

gency procedures

Observe all relevant local and international regulations.

Notify authorities if any exposure to the general public or the

environment occurs or is likely to occur.

Local authorities should be advised if significant spillages

cannot be contained.

Avoid contact with skin, eyes and clothing.

Prevent from spreading or entering into drains, ditches or riv-Environmental precautions

ers by using sand, earth, or other appropriate barriers.

Use appropriate containment to avoid environmental contami-

Ventilate contaminated area thoroughly.

Methods and materials for containment and 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.

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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

Additional advice : For guidance on selection of personal protective equipment

see Section 8 of this Safety Data Sheet.

For guidance on disposal of spilled material see Section 13 of

this Safety Data Sheet.

#### **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 stor-

age facilities are followed.

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.

Avoidance of contact : Strong oxidising agents.

Strong acids. Strong bases.

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

drum containers to empty.

**Storage** 

Conditions for safe storage : Refer to section 15 for any additional specific legislation cov-

ering 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

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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.

Specific use(s) : Not applicable

Ensure that all local regulations regarding handling and stor-

age facilities are followed.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters

Contains no components with occupational exposure limit values.

## **Biological occupational exposure limits**

No biological limit allocated.

## **Monitoring Methods**

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

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

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

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

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

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

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

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

Engineering measures : 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.

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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

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)].

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 offering this level of protection may not be available and in this

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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.

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

protective eyewear 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.

Thermal hazards : Not applicable

Protective measures : Personal protective equipment (PPE) should meet recom-

mended national standards. Check with PPE suppliers.

## **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 envi-

ronmental legislation.

Information on accidental release measures are to be found in

section 6.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : Slightly viscous liquid.

Colour : colourless

Odour : mild

Odour Threshold : Data not available

pH : Data not available

Melting / freezing point : -13 °C / 9 °F

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Boiling point/boiling range : 196.5 - 198.5 °C / 385.7 - 389.3 °F

Flash point : 116 °C / 241 °F

Method: Pensky-Martens closed cup

Evaporation rate

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 / 68 °F)

Relative vapour density : 2.2

Relative density : 1.12

Method: ASTM D4052

Density : 1,113 kg/m3 (20 °C / 68 °F)Method: ASTM D4052

Solubility(ies)

Water solubility : completely soluble

Partition coefficient: n-

octanol/water

: log Pow: -1.93 (20 °C / 68 °F)

Data not available

Auto-ignition temperature : 398 °C / 748 °F

Decomposition temperature : Data not available

Viscosity

Viscosity, dynamic : 16.1 mPa.s (25 °C / 77 °F)

Method: ASTM D445

: 24.8 mm2/s (20 °C / 68 °F) Viscosity, kinematic

Method: ASTM D445

Explosive properties : Not applicable

Oxidizing properties : Not applicable

Surface tension : Data not available

Conductivity : Electrical conductivity: > 10,000 pS/m

A number of factors, for example liquid temperature, presence

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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

Particle characteristics

Particle size : Data not available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : The product does not pose any further reactivity hazards in

addition to those listed in the following sub-paragraph.

Chemical stability : No hazardous reaction is expected when handled and stored

according to provisions
Oxidises on contact with air.

Possibility of hazardous reac-

tions

: None known.

Conditions to avoid : Extremes of temperature and direct sunlight.

Product cannot ignite due to static electricity.

Incompatible materials : Strong oxidising agents.

Strong acids. Strong bases.

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 degra-

dation.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

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 com-

ponent(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.

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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

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

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

: Method: Literature data

Remarks: Based on data from similar materials

Genotoxicity in vivo : Species: Rat

Method: Literature data

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

## **Components:**

#### ethanediol:

Species: Mouse, (male and female)

Application Route: Oral Method: Literature data

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

Carcinogenicity - Assess-

ment

: This product does not meet the criteria for classification in

categories 1A/1B.

Material	GHS/CLP Carcinogenicity Classification
ethanediol	No carcinogenicity classification.

## Reproductive toxicity

#### 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.

## STOT - repeated exposure

# **Components:**

## ethanediol:

Exposure routes: Oral Target Organs: Kidney

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

sure.

## Repeated dose toxicity

# **Components:**

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#### ethanediol:

Species: 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**

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 com-

ponent(s).

#### **Ecotoxicity**

# **Components:**

## ethanediol:

Toxicity to fish (Acute toxici-

ty)

: 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 crustacean (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/I

Toxicity to algae/aquatic plants (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 fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 15,380 mg/l

Exposure time: 7 d

Method: Other guideline method.

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Remarks: NOEC/NOEL > 100 mg/l

Toxicity to crusta- : NOEC (Chironomus sp. (midge)): 8,590 mg/l

cean(Chronic toxicity) Exposure time: 7 d

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

Toxicity to bacteria : 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

# Persistence and degradability

# **Components:**

ethanediol:

Biodegradability : Biodegradation: 90 - 100 %

Exposure time: 10 d

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

Bioaccumulative potential

Partition coefficient: n-

octanol/water

: log Pow: -1.93 (20 °C) Remarks: Data not available

**Components:** 

ethanediol:

Bioaccumulation : Remarks: Does not have the potential to bioaccumulate signif-

icantly.

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.

Other adverse effects

**Components:** 

ethanediol:

Results of PBT and vPvB

assessment

: The substance does not fulfill all screening criteria for persistence, bioaccumulation and toxicity and hence is not consid-

ered to be PBT or vPvB.

Additional ecological infor-

mation

: Does not have ozone depletion potential.

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#### **SECTION 13. DISPOSAL CONSIDERATIONS**

#### Disposal methods

Waste from residues

: Recover or recycle if possible.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal meth-

ods 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 disposed of in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand.

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 for the Prevention of Pollution from Ships (MARPOL 73/78) which provides tech-

nical aspects at controlling pollutions from ships.

Contaminated packaging

: Dispose in accordance with prevailing regulations, preferably to a recognized collector or contractor. The competence of the collector or contractor should be established beforehand.

# **SECTION 14. TRANSPORT INFORMATION**

#### **National Regulations**

Not regulated as a dangerous good

# **International Regulations**

## **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

#### Maritime transport in bulk according to IMO instruments

Pollution category Ship type : 3

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Product name : Ethylene glycol

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.

**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.

Transport in bulk according to Annex II of Marpol and the IBC

Code

#### **SECTION 15. REGULATORY INFORMATION**

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

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

IECSC : Listed

ENCS : Listed

KECI : Listed

NZIoC : Listed

PICCS : Listed

TSCA : Listed

TCSI : Listed

## **SECTION 16. OTHER INFORMATION**

## **Full text of H-Statements**

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

Full text of other abbreviations

Acute Tox. Acute toxicity

The content and format of this safety data sheet is in accordance with ABNT NBR 14725:2023 requirements.

# **Ethylene Glycol Fiber Grade**

Version 1.2 Revision Date 09.05.2025 Print Date 17.05.2025

STOT RE Specific target organ toxicity - repeated exposure

Abbreviations and Acronyms : The standard abbreviations and acronyms used in this docu-

ment can be looked up in reference literature (e.g. scientific

dictionaries) and/or websites.

**Further information** 

Training advice : Provide adequate information, instruction and training for op-

erators.

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 date 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.