

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

SECTION 1. IDENTIFICATION

Product name : Monopropylene glycol - USP

Product code : U1512, U1530, U1535, U1540

CAS-No. : 57-55-6

Other means of identification : Propane-1,2-diol

Manufacturer or supplier's details

Manufacturer/Supplier : **Shell CAPSA**
Av. Roque Saenz Peña 788
Buenos Aires, 1383
Argentina

Telephone : (+54 11) 4130-2168

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 : Generally accepted for use in food, animal feed, flavours and cosmetics and as an excipient (inactive carrier) for pharmaceuticals. Restrictions or limitations set by local regulations have to be followed.

Restrictions on use : This product must not be used in applications other than the above without first seeking the advice of the supplier.
Do not use in theatrical fogs or other artificial smoke generator applications.
Monopropylene Glycol USP is not an approved additive to cat foodstuff acc. to 91/336/EEC and 21CFR § 582.1666.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not classified as hazardous in accordance with ABNT NBR 14725

GHS label elements

Hazard pictograms : No Hazard Symbol required

Signal word : No signal word

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

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.

Other hazards which do not result in classification

Not classified as flammable but will burn.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Monopropylene glycol	57-55-6		<= 100

SECTION 4. FIRST-AID MEASURES

General advice	: Not expected to be a health hazard when used under normal conditions.
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.
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	: In general no treatment is necessary unless large quantities are swallowed, however, get medical advice.
Most important symptoms and effects, both acute and	: Not considered to be an inhalation hazard under normal conditions of use.

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

delayed	<p>Possible respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.</p> <p>No specific hazards under normal use conditions.</p> <p>Skin irritation signs and symptoms may include a burning sensation, redness, or swelling.</p> <p>No specific hazards under normal use conditions.</p> <p>Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision.</p> <p>No specific hazards under normal use conditions.</p> <p>Ingestion may result in nausea, vomiting and/or diarrhoea.</p>
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.
Notes to physician	: Call a doctor or poison control center for guidance. Treat symptomatically. Following cases of gross over-exposure, investigation of liver, kidney and eye function may be advisable. Records of such incidents should be maintained for future reference.

SECTION 5. FIRE-FIGHTING MEASURES

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.
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 methods	: 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, protective equipment and emergency procedures	: Observe all relevant local and international regulations. Notify authorities if any exposure to the general public or the
---	---

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

	<p>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.</p>
Environmental precautions	<p>: 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.</p>
Methods and materials for containment and cleaning up	<p>: Contain run-off from residue flush and dispose of properly. Soak up residue with an absorbent such as clay, sand or other suitable material.</p> <p>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</p>
Additional advice	<p>: 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.</p>

SECTION 7. HANDLING AND STORAGE

General Precautions	<p>: 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.</p>
Advice on safe handling	<p>: 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.</p>

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

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 covering the packaging and storage of this product.
Recommended storage temperature	: <= 40 °C
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. Protect from frost, heat and sunlight.
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 storage 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 con-

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

trols. For some substances biological monitoring may also be appropriate.

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

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

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

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

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

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

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

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

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.

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

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 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 recommended 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-

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

ronmental legislation.

Information on accidental release measures are to be found in section 6.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid.
Colour	: colourless
Odour	: odourless
Odour Threshold	: Data not available
pH	: 7
Melting / freezing point	: -59 °C / -74 °F
Boiling point/boiling range	: 186 - 189 °C / 367 - 372 °F
Flash point	: 99 °C / 210 °F Method: ASTM D-93 / PMCC
Evaporation rate	: Data not available
Flammability Flammability (solid, gas)	: Not applicable
Lower explosion limit and upper explosion limit / flammability limit Upper explosion limit	: 12.6 %(V)
Lower explosion limit	: 2.6 %(V)
Vapour pressure	: ca. 7 Pa (20 °C / 68 °F)
Relative vapour density	: 2.5 (20 °C / 68 °F)
Relative density	: 1.04 (3.89 °C / 39.00 °F) Method: ASTM D4052
Density	: 1,036 kg/m3 (20 °C / 68 °F)Method: ASTM D4052
Solubility(ies) Water solubility	: completely soluble
Partition coefficient: n-octanol/water	: log Pow: ca. -1
Auto-ignition temperature	: 421 °C / 790 °F
Decomposition temperature	: Data not available

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

Viscosity	
Viscosity, dynamic	: 55 mPa.s (20 °C / 68 °F) Method: ASTM D445
Viscosity, kinematic	: Data not available
Explosive properties	: Not applicable
Oxidizing properties	: Not applicable
Surface tension	: 71.6 mN/m, 21.5 °C / 70.7 °F
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	: 76.1 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 reactions	: 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 degradation.

SECTION 11. TOXICOLOGICAL INFORMATION

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

Basis for assessment : Information given is based on product testing, and/or similar products, and/or components.
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 following accidental ingestion.

Acute toxicity

Components:

Monopropylene glycol:

Acute oral toxicity : LD 50 (Rat, male and female): 22,000 mg/kg
Method: Literature data
Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rabbit): > 317 mg/l
Exposure time: 2 h
Test atmosphere: Aerosol
Method: Literature data
Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD 50 (Rabbit): > 2,000 mg/kg
Method: Acceptable non-standard method.
Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Components:

Monopropylene glycol:

Species: Rabbit
Method: OECD Test Guideline 404
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Components:

Monopropylene glycol:

Species: Rabbit
Method: OECD Test Guideline 405
Remarks: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Components:

Monopropylene glycol:

Species: Mouse
Method: Test(s) equivalent or similar to OECD Test Guideline 429
Remarks: Based on available data, the classification criteria are not met.

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

Germ cell mutagenicity

Components:

Monopropylene glycol:

Genotoxicity in vitro : Method: Literature data
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.

Genotoxicity in vivo : Species: Rat
Method: Literature data
Remarks: Based on available data, the classification criteria are not met.

Species: Mouse
Method: Literature data
Remarks: Based on available data, the classification criteria are not met.

Carcinogenicity

Components:

Monopropylene glycol:

Species: Rat, (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
Monopropylene glycol	No carcinogenicity classification.

Reproductive toxicity

STOT - single exposure

Components:

Monopropylene glycol:

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

STOT - repeated exposure

Components:

Monopropylene glycol:

Remarks: Based on available data, the classification criteria are not met.
Cats given high doses of MPG in diet showed a decrease in red blood cell survival.

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

Repeated dose toxicity

Components:

Monopropylene glycol:

Species: Rat, male and female

Application Route: Oral

Method: Literature data

Target Organs: No specific target organs noted

Species: Rat, male and female

Application Route: Inhalation

Test atmosphere: Aerosol

Method: Literature data

Target Organs: No specific target organs noted

Species: Mouse, female

Application Route: Dermal

Method: Literature data

Target Organs: No specific target organs noted

Aspiration toxicity

Components:

Monopropylene glycol:

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

Further information

Components:

Monopropylene glycol:

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 component(s).

Ecotoxicity

Components:

Monopropylene glycol:

Toxicity to fish (Acute toxicity) : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l
Exposure time: 96 h
Method: Test(s) equivalent or similar to OECD Guideline 203
Remarks: Practically non toxic:
LL/EL/IL50 > 100 mg/l

Toxicity to crustacean (Acute toxicity) : LC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l
Exposure time: 48 h

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

Method: Test(s) equivalent or similar to OECD Guideline 202
Remarks: Practically non toxic:
LL/EL/IL50 > 100 mg/l

Toxicity to algae/aquatic plants (Acute toxicity) : EC50 (Pseudokirchneriella subcapitata (algae)): 19,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 201
Remarks: Practically non toxic:
LL/EL/IL50 > 100 mg/l

Toxicity to fish (Chronic toxicity) : Chronic Toxicity Value: 2,500 mg/l
Exposure time: 30 d
Method: Based on quantitative structure-activity relationship (QSAR) modelling
Remarks: NOEC/NOEL > 100 mg/l

Toxicity to crustacean(Chronic toxicity) : NOEC (Ceriodaphnia dubia (Water flea)): 29,000 mg/l
Exposure time: 7 d
Method: Test(s) equivalent or similar to OECD Guideline 211
Remarks: NOEC/NOEL > 100 mg/l

Toxicity to bacteria : EC50 (Pseudomonas putida): > 100 mg/l
Method: Test(s) equivalent or similar to OECD Guideline 209
Remarks: Practically non toxic:
LL/EL/IL50 > 100 mg/l

Persistence and degradability

Components:

Monopropylene glycol:

Biodegradability : Biodegradation: 97 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Readily biodegradable.

Bioaccumulative potential

Partition coefficient: n-octanol/water : log Pow: ca. -1

Components:

Monopropylene glycol:

Bioaccumulation : Bioconcentration factor (BCF): 0.09
Method: Based on quantitative structure-activity relationship (QSAR) modelling
Remarks: Does not bioaccumulate significantly.

Mobility in soil

Components:

Monopropylene glycol:

Mobility : Remarks: If the product enters soil, one or more constituents will or may be mobile and may contaminate groundwater.

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

Other adverse effects

Components:

Monopropylene glycol:

Endocrine disrupting potential : Substance does not have endocrine disrupting properties.

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 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 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 technical 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

ANTT

Not regulated as a dangerous good

International Regulations

IATA-DGR

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Maritime transport in bulk according to IMO instruments

Pollution category	: OS
Ship type	: IBC Chapter 18 cargo, must be double hulled
Product name	: Propylene 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:

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 docu-
----------------------------	--

SAFETY DATA SHEET

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

Monopropylene glycol - USP

Version 2.2

Revision Date 29.04.2025

Print Date 06.05.2025

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 operators. |
| 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.