

FICHA COM DADOS DE SEGURANÇA

Nome do Produto: GLICERINA BI-DESTILADA USP VEG

Revisão: 1 (Ing)

Data: 10/08/2026

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1 - Identificação

Nome do Produto: GLICERINA BI-DESTILADA USP VEG

Número da FDS: 7292

Comercializado por: Morais de Castro Comércio e Importação de Produtos Químicos Ltda.

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1.1-Outras maneiras de identificação:

Glycerol; anhydrous glycerin; glycerin; glyceritol; glyceryl alcohol; 1,2,3-propanetriol; propanetriol; 1,2,3-trihydroxypropane; trihydroxypropane.

1.2-Usos recomendados do produto químico e restrições de uso:

Industrial use.

2 - Identificação de perigos

Classification of the substance or mixture:

Not classified as hazardous according to ABNT NBR 14725.

GHS labeling elements, including precautionary statements:

Not classified as hazardous according to ABNT NBR 14725.

Other hazards that do not result in a classification:

Not available.

3 - Composição e Informações sobre os ingredientes

Chemical identity: Glycerin USP.

Common name, synonym: Glycerol; anhydrous glycerin; glycerin; glyceritol; glyceryl alcohol; 1,2,3-propanetriol; propanetriol; 1,2,3-trihydroxypropane; trihydroxypropane.

CAS registration number: 56-81-5.

4 - Medidas de primeiros-socorros

Description of necessary first-aid measures:

Inhalation:

Seek immediate medical attention. Remove the victim to fresh air. If breathing is difficult, administer oxygen. If breathing stops, provide artificial respiration.

Skin contact:

Remove contaminated clothing and shoes. Wash affected areas with plenty of running water, preferably under a shower. Seek immediate medical attention.

Eye contact:

Immediately flush with plenty of running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if possible. Seek immediate medical attention.

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Ingestion:

Seek medical attention immediately. Do not induce vomiting. Vomiting should only be induced by a medical professional. If vomiting occurs, keep the head lower than the torso to prevent aspiration of the product into the lungs. Never give anything to an unconscious person or someone having seizures.

Most important symptoms and effects, both acute and delayed:

Ingestion:

Causes headache, nausea, and vomiting. Other symptoms may include irritation of the digestive tract, insomnia, dizziness, diarrhea, and fever.

Inhalation:

Due to its low vapor pressure, it is unlikely to cause inhalation problems at room temperature. Vapor or mist in sufficient concentrations may interfere with respiratory function. At high temperatures, the smoke may cause irritation and dehydration of the mucous membranes. Symptoms may include coughing and difficulty breathing.

Skin contact:

May cause effects ranging from mild irritation to skin dehydration with subsequent irritation and redness. Repeated or prolonged exposure to concentrated solutions may cause dermatitis.

Eye contact:

Application to the human eye may cause severe pain and burning, with reflex tearing and dilation of the conjunctival vessels, but no damage.

Immediate medical attention and special treatments required, if necessary, are indicated:

Direct treatment according to the patient's symptoms and clinical condition. Glycerin acts as an osmotic diuretic and as such may decrease intraocular pressure and cause hypovolemia.

5 - Medidas de combate a incêndio

Means of extinction:

Suitable extinguishing media:

Water spray. Alcohol-resistant foam. Carbon dioxide (CO₂). Dry chemical powder.

Specific hazards arising from the substance or mixture:

Product is not flammable. In case of combustion, it may generate toxic and/or irritating fumes containing: Acrolein. Carbon oxides. Contact of glycerin with strong oxidizing agents such as chromium(III) oxide, potassium chlorate, potassium permanganate or liquid chlorine may cause an explosion.

Special protective measures for the firefighting team:

Do not direct a jet of water directly onto the burning product, as this may cause it to spread and increase the intensity of the fire. Self-contained breathing apparatus and protective clothing are required. Cool intact containers exposed to fire with water mist and remove them.

6 - Medidas de controle para derramamento ou vazamento

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Keep away from heat and/or ignition sources.

For emergency service personnel:

Isolate and mark off the area. Use the personal protective equipment indicated in Section 8 to avoid contact with the spilled product.

Environmental precautions:

Prevent the product from reaching the soil and waterways. Notify the relevant authorities if the product reaches drainage systems or waterways, or if it contaminates the soil or vegetation.

Methods and materials for containment and cleanup:

Stop the spill if possible. Contain the spilled product with earth or sand dikes. Eliminate sources of ignition or heat. Transfer to a suitable container. Collect residues with appropriate absorbent material. Wash the contaminated area with water, which should be collected for disposal.

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7 - Manuseio e armazenamento

Handling and Storage Precautions for safe handling:

Use in a well-ventilated area. Prevent inhalation of the product and contact with eyes, skin, and clothing by using appropriate protection. If accidental contact occurs, the area should be washed immediately. Emergency showers and eyewash stations should be available in appropriate locations. Wash hands and face thoroughly after handling. Wash contaminated clothing before reuse.

Safe storage conditions, including any incompatibilities:

Safe Storage Conditions:

Store in a covered, well ventilated area, away from sunlight and heat sources or open flames. Ensure the storage area has adequate temperature, pressure, and humidity. Keep containers tightly closed when not in use. For pumping, it must be heated above 60°C. Exposure to ultraviolet light, especially sunlight, should be minimized to prevent loss of quality.

Incompatibilities:

Strong oxidizing agents. Strong reducing agents. Metal oxides. Peroxides. Acids. Alkalis.

Packaging Materials:

Steel coated with epoxy-phenolic resin. Low-density polyethylene

8 - Controle de exposição e proteção individual

Control parameters:

TLV-TWA (ACGIH) TLV® withdrawal due to insufficient data on occupational exposure.

PEL-TWA (OSHA) 15 mg/m³ (total dust); 5 mg/m³ (respirable fraction).

TLV-STEL (ACGIH) Not established.

LT(NR15) Not established.

Engineering control measures:

In enclosed environments, this product must be handled with adequate ventilation (general dilution or local exhaust)

Personal protective measures:

Eye/face protection:

Safety glasses with side protection or wide vision.

Skin protection:

PVC apron. We recommend wearing safety boots/shoes. Gloves: PVC (Polyvinyl chloride).

Respiratory protection:

In case of emergency or contact with high concentrations of the product, use a self-contained breathing apparatus or supplied-air respirator. A mask with a filter for organic vapors is recommended in case of exposure to vapors/aerosols.

Thermal hazards:

Not available.

9 - Propriedades físicas e químicas

Physical state: Liquid.

Color: Colorless.

Odor: Odorless.

Melting point/freezing point: 18 °C.

Boiling point or initial boiling point and boiling range: 171 °C (reference).

Flammability: Not available.

Lower explosion/flammability limit: Not available.

Upper explosion/flammability limit: Not available.

Flash point: 198.9 °C (closed cup).

Auto-ignition temperature: 400 °C (reference).

Decomposition temperature: 290 °C (reference).

pH: 5.0 - 7.5 (50% solution).

Kinematic viscosity: 954 cP (25 °C).

Solubility: Soluble in water (20 °C).

Partition coefficient - n-octanol/water: Not available.

Vapor pressure: 0.0025 mmHg at 50 °C (reference).

Density: 1.2490 g/cm³ (25 °C).

Relative vapor density: 3.1 g/cm³ (25 °C).

Particle characteristics: Not applicable.

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10 - Estabilidade e reatividade

Reactivity:

Stable under normal conditions of use and storage.

Chemical stability:

No hazardous reactivity is expected.

Possibility of hazardous reactions:

Does not polymerize.

Conditions to avoid:

High temperatures, ignition sources, and prolonged exposure to air.

Incompatible materials:

Strong oxidizing agents. Strong reducing agents. Metal oxides. Peroxides. Acids. Alkalis.

Hazardous decomposition products:

Combustion may generate toxic and/or irritating fumes containing: Acrolein. Carbon oxides.

11 - Informações toxicológicas

Acute toxicity:

Oral LD50, rat: 12,600 mg/kg.

Inhalation LC50, 1h, rat: > 570 mg/m³.

Dermal LD50, rabbit: > 10 g/kg. LD50, rat: > 21,900 mg/kg.

Skin corrosion/irritation:

Mild irritation (500 mg/24h, rabbit). The maximum irritation score was 4 on a scale of 9 on day 14 during a 21-day application of a 10% solution to human skin.

Serious eye damage/eye irritation:

Mild and reversible irritation within 48h (500 mg/24h, rabbit).

Respiratory or skin sensitization:

Based on available information, there are no human or animal data indicating that glycerin is a skin sensitizer. However, allergic reactions may occur in sensitive individuals.

Germ cell mutagenicity:

No gene mutations were induced in bacterial strains, nor were chromosomal effects in mammalian cells or primary DNA damage observed in vitro. RTECS: 200 mmol/L for humans; 1 g/kg for rats.

Carcinogenicity:

No effect on the incidence of tumor formation. TDLo, 25 weeks, oral: 87.5 g/kg (mouse).

Reproductive toxicity:

No effects on fertility or reproductive performance were observed in a two-generation gavage study. NOAEL = 2000 mg/kg/day.

No maternal toxicity or teratogenic effects were observed in rats, mice, or rabbits at the highest dose levels tested. NOEL = 1180 mg/kg/day. Specific target organ toxicity – single exposure:

Not available.

Specific target organ toxicity – repeated exposure:

LOAEC = 1000 mg/m³ (based on local effects on the upper respiratory tract epithelium).

NOAEC = 167 mg/m³ (based on local effects on the upper respiratory tract epithelium).

NOAEL = 10000 mg/kg (based on the absence of treatment-related high-dose effects in animals).

Aspiration hazard:

Not expected to be an aspiration hazard.

12 - Informações ecológicas

Ecotoxicity:

Fish - LC50, 24h, Carassius auratus: > 5000 mg/L.

Invertebrate - EC50, 24h, Daphnia magna: > 10000 mg/L.

Persistence and degradability:

Readily biodegradable. 92% after 30 days.

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Bioaccumulative potential:

Not expected to bioaccumulate in the environment. Log Kow: -1.76.

Mobility in soil:

High mobility in soil is expected. Log Koc: 0.65.

Other adverse effects:

WGK 1:

Slightly hazardous to water.

13 - Considerações sobre destinação final

Recommended disposal methods:

Product:

Prioritize waste prevention, reduction, reuse, recycling, co-processing, and incineration at authorized facilities, adhering to specific operational standards to prevent harm or risks to health, safety, and the environment. Carry out co-processing or incineration at facilities capable of preventing the emission of pollutants into the atmosphere. Final disposal must comply with municipal, state, and federal legislation and align with the regulations of local environmental agencies.

Product Residues:

The same method indicated for the product.

Packaging:

Do not cut or puncture the packaging, and do not perform hot work near it. Do not remove labels until the product has been completely removed and the packaging cleaned. Dispose of properly, prioritizing reuse, recovery, and recycling at authorized facilities. All procedures must follow specific operational standards to prevent harm or risks to health, safety, and the environment. Disposal must comply with municipal, state, and federal legislation and align with the regulations of local environmental agencies.

14 - Informações sobre transporte

National and international regulations:

Land Transport (ANTT):

Product not classified as dangerous in accordance with Resolution No. 5.998/22 – Ministry of Transport.

Maritime Transport (IMDG):

Product not classified as dangerous in accordance with the IMDG Code – 2012 Edition – IMO (International Maritime Organization).

Air Transport (IATA):

Product not classified as dangerous in accordance with the Dangerous Goods Regulations – 56th Edition – IATA (International Air Transport Association).

15 - Informações sobre regulamentações

Specific safety, health, and environmental regulations for the chemical product:

NBR 14725/2023 - Chemical products — Safety, health, and environmental information — General aspects of the Globally Harmonized System (GHS), classification, SDS, and labeling of chemical products.

ANTT Resolution No. 5998 of November 3, 2022 - Updates the Regulation for the Road Transport of Dangerous Goods. Ordinance No. 240 of March 12, 2019: Product subject to control and oversight by the Ministry of Justice - Federal Police Department (MJ/DPF).

16 - Outras Informações

Important information not specifically described in the previous sections:

Not available.

References:

Not available.

Legends and abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists (USA).

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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (American Chemical Society) (USA).

EC50: Median concentration for 50% of the maximum response.

LC: Lethal Concentration – concentration of a substance in an environment that causes death after a certain period of exposure.

LC50: Lethal concentration for 50% of test animals.

BOD: Biochemical Oxygen Demand.

LD50: Lethal dose for 50% of test animals.

LDLo: Lowest Lethal Dose – minimum lethal amount of a chemical substance for test animals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

IARC: International Agency for Research on Cancer.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations by IATA.

ICAO: International Civil Aviation Organization.