



GLICERINA BI DESTILADA

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1. IDENTIFICATION

Name of the substance or mixture (trade name) GLICERINA BI DESTILADA

Internal code product 001.00  
identification

Major recommended uses for the substance or mixture

Company Name RAZZO LTDA

Address Av. Marginal Direita do Rio Tietê, 830. Vila Jaguara – São Paulo – SP

Contact Phone (11) 2164-1313

Emergency telephone number (11) 2164-1313

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2. HAZARDS IDENTIFICATION

Product classification Chemical not classified as hazardous according to NBR 14725-2

Appropriate labelling elements

GHS Symbol Not required

Words of warning Not required

Danger phrases Not required

Precautionary phrases **General**

P103 Read label before using the product.

**Prevention:**

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink and smoke while using this product.

**Reply**

P370 + P378 In case of fire: To the extinction see item 5.

**Storage**

P403 Store in a well-ventilated place.

**Elimination**

P501 Dispose of contents / container in accordance with local regulations (see section 13).



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**Other hazards which do not result in a classification** It has no other dangers.

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### 3. COMPOSITION AND INFORMATION ON INGREDIENTS

<b>Chemical</b>	This product is a substance.
<b>Common chemical name or generic name</b>	Glycerin. CAS: 56-81-5
<b>Sodium tallowate</b>	1,2,3 - triol; propanetriol; glycerol; Glycolic alcohol

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### 4. FIRST AID MEASURES

<b>Inhalation</b>	Seek medical attention immediately. Remove the victim to fresh air. If breathing is difficult, give oxygen. In case of respiratory arrest, provide artificial respiration.
<b>Eyes</b>	Not available.
<b>Skin</b>	Remove contaminated clothing, wash affected areas with plenty of running water, preferably under a shower. Seek immediate help.
<b>ingestion</b>	Seek medical attention immediately. Vomiting should only be induced by one of the medical field. If vomiting occurs, keep head lower than the trunk to avoid aspiration of product into the lungs.
<b>Most important symptoms and effects, both acute and delayed</b>	Inhalation: Mist may irritate the respiratory tract. Skin: May cause irritation in the mouth. In case of prolonged contact, absorbs water from the skin. Eyes: May cause irritation. Ingestion: May cause irritation to the gastrointestinal tract may cause nausea, diarrhea and headache.
<b>Note to physician</b>	Symptomatic treatment.

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### 5. FIRE FIGHTING MEASURES

<b>Extinguishing material</b>	Use water fog, alcohol resistant foam, carbon dioxide or dry chemical. Do not apply water jet directly on the product in flames as it may spread and increase fire intensity.
<b>specific Dangers</b>	Water should not be routed directly on the product in flames, as this may spread increasing the intensity of the fire. In case of combustion may generate acrolein and carbon monoxide in addition to CO <sub>2</sub> .
<b>Protective Measures firefighting</b>	<b>Team</b> Firefighters: Use self-contained breathing equipment and appropriate clothing fire. Do not enter confined areas without proper protective equipment (PPE); this should include autonomous masks for protection against the harmful effects of combustion products or lack of oxygen.  Isolate the hazard area and prohibiting the entry of people. In case of fire use water



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spray to cool containers exposed to fire. Keep safe distance from the flames to prevent burns by irradiation. Use extinction processes that preserve the environment.

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#### 6. MEASURES SPILL OR LEAK

##### Personal precautions, protective equipment and emergency procedures.

**For personnel that is not part of the emergency services** Isolate spill or leak area within a radius of 50 meters, at least in all directions. Use clothing, gloves and eye protection. Do not touch, stay or walk through spilled material. Avoid low areas. Move away from the location of the leak while remaining positioned downwind (with his back to the wind) to prevent contamination.

**To the staff of the emergency service** Use waterproof protective clothing and chemical resistant. Arrange grounding of all equipment that will be used in the handling of spilled material. Eliminate all possible sources of ignition such as open flames, hot elements without insulation, electrical or mechanical sparks, cigarettes, electrical circuits, etc. Prevent the use of any action or proceeding resulting in the generation of sparks or flames.

**Environmental precautions** Isolate the area of the accident. Prevent the spread of spilled material, preventing contamination of rivers and springs. Shut off leak if possible, avoiding contact with skin and clothing. Never dispose of the spilled material to sewers. Leaks must be reported to the manufacturer and / or environmental agencies.

**Methods and materials for containment and cleaning** Use dikes or natural barriers to contain the leakage of the product. Absorb with inert absorbent material (sand, diatomite, vermiculite). If possible sealed the leak using plugs, sealing strap or reversing the hole / tear / crumpled up. Collect all the material in suitable and properly labeled containers for further treatment and disposal. Waste must be disposed according to environmental local, state or federal law. To verify transshipment an appropriate place and deliver the security procedures described above.

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#### 7. HANDLING AND STORAGE

**Precautions for safe handling** No smoking in the workplace. Avoid drinking, tasting, swallowing or ingesting this product.

In places where chemical products are handled should monitor the exposure of workers as PPRA (Environmental Risk Prevention Program) from NR-9.

Handle in accordance with good industrial hygiene and safety practice. Storage facilities and use must be equipped with eyewash facilities and a safety shower. The clothing and PPE should always be cleaned and checked before use. Always use for personal hygiene water, soap and cleaning creams. Good operating procedures and industrial hygiene help reduce the risk in handling chemicals.

**Conditions for safe storage, including any incompatibilities** Store in a covered, dry and ventilated area. Protect containers from physical damage. Use and store with adequate ventilation.

Incompatible materials: Avoid contact with strong oxidizing agents such as nitric acid or other strong acid, chromium trioxide, potassium chlorate or potassium permanganate.

Keep container tightly closed when not in use. These containers should not be reused for other purposes and must be arranged in appropriate places.



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## 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

<b>Control Parameters</b>	TLV-TWA (ACGIH): 10 mg / m <sup>3</sup> (glycerine mists). PEL-TWA (OSHA): 15 mg / m <sup>3</sup> (total dust); 5 mg / m <sup>3</sup> (respirable fraction)
<b>Engineering Control Measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protection</b>	
<b>respiratory Protection</b>	In an emergency or contact with high product concentrations to use SCBA or air warrant. It is recommended mask with filter for organic vapors if exposed to vapors / aerosols.
<b>Hand Protection</b>	PVC gloves.
<b>Eye protection / face</b>	Safety goggles for chemicals.
<b>Protection for skin</b>	Suitable industrial clothing.
<b>Thermal hazards</b>	Does not have

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## 9. PHYSICAL AND CHEMICAL

<b>Aspect</b> (physical state, shape, color)	Colorless liquid
<b>Odor</b>	Odorless
<b>pH</b>	Neutral
<b>Melting / freezing point</b>	18°C
<b>Initial boiling point and boiling temperature range</b>	290°C (760 mmHg)
<b>Flash Point</b>	198,9°C (closed cup)
<b>Evaporation rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not available
<b>Lower Limit / Upper Flammable or explosive</b>	Not available
<b>Vapor Pressure</b>	< 0,001kPa (20°C)
<b>Vapor Density</b>	3.1 (compared to air) (air = 1)
<b>Relative density</b>	1.2490 g / cm <sup>3</sup> (25 ° C) (air = 1)



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<b>Solubility (s)</b>	Soluble in water (20 ° C)
<b>Coefficient of Participation - n-octanol/water</b>	Not available
<b>Autoignition temperature</b>	400°C (reference)
<b>Decomposition Temperature</b>	> 204°C (reference)
<b>viscosity</b>	954 cP (25°C)
<b>Distillation Range</b>	Not available

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#### 10. STABILITY AND REACTIVITY

<b>reactivity</b>	Not available
<b>Chemical Stability</b>	The product is stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	Not available
<b>Conditions to avoid</b>	High temperatures, sources of ignition and prolonged exposure to air.
<b>Incompatible materials</b>	Avoid contact with strong oxidizing agents such as nitric acid or other strong acid, chromium trioxide, potassium chlorate or potassium permanganate
<b>Hazardous Decomposition Products</b>	In case of combustion may generate acrolein and carbon monoxide in addition to CO <sub>2</sub> .

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#### 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	LD50 dermal - rabbit > 10 g / kg. LD50, oral - rat: > 2 g / kg.
<b>Corrosion/irritation to the skin</b>	Not rated
<b>Serious eye damage / eye irritation</b>	Not rated
<b>Respiratory or skin sensitization</b>	Not rated
<b>Germ cell mutagenicity</b>	Not rated
<b>carcinogenicity</b>	Not rated
<b>Toxicity reproduction</b>	Not rated
<b>Organ toxicity specific target - single exposure</b>	Not rated



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Organ toxicity specific target - repeated exposure Not rated

Aspiration hazard Not rated

Substances that may cause interaction, addition, potentiation and synergy Not rated

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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** LC50, goldfish (goldfish): > 5 mg / L / 24h; CL0, Leuciscus idus (Golden Orfe): > 250 mg / L / 48h; EC50 Daphnia magna: > 10 mg / L / 25h; EC0 Daphnia magna: > 500 mg / L / 24h

**Persistence / degradability** Readily biodegradable.

**Bioaccumulative potential** Data not evaluated.

**Mobility in soil** Data not evaluated.

**Other adverse effects** No additional information.

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### 13. CONSIDERATIONS FOR FINAL DESTINATION

**Recommended methods for disposal** Never dispose into drains or the environment. Product residues should be disposed of in accordance with federal, state and local regulations for health and environment, applicable and effective: ABNT-NBR 10.004 / 2004 and ABNT-NBR 16725.

Used packaging: Your willingness to comply with all applicable environmental regulations and health, according to the same criteria for the product.

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### 14. TRANSPORT INFORMATION

RTPP – Res 420/04 ANTT | IMDG / DPC / ANTAQ | ICAO-TI / IATA-DGFT / ANAC

Not classified as hazardous for transport as above regulations.

**Other transport information:** Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential risks of load and the measures to be taken in case of accident or emergency. Before transporting product containers ensure that they are firmly secured. Transportation fractionated each container must be properly identified, carrying the expected labeling standard.

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#### 15. REGULATORY INFORMATION

Ordinance No. 229 of 2011 / MTE (amending Regulatory Standard "NR 26", which deals with Safety Signs).

Ordinance 704/15 of the Ministry of Labor and Employment (Official Gazette of 05.28.2015) amending the Regulatory Standard 26 (NR 26) - Safety Signs. This Ordinance included in item 26.2.2.5 Regulatory Standard No. 26, approved by Decree 3214/1978, as amended by Decree 229/2011, as follows: "The products notified or recorded as Sanitizing ANVISA are exempted from compliance with precautionary labeling requirements established by paragraphs 26.2.2, 26.2.2.1, 26.2.2.2 and 26.2.2.3 of the NR 26. "

Decree 2,657 / 1998 - promulgates the Convention No. 170 of the ILO concerning the safe use of chemicals at work, signed at Geneva on 25 July 1990.

Decree No. 7404 of 23 December 2010.

Law 9.605 / 1998 Environmental Crimes.

Law 8,098 / 1990 Consumer Protection Code.

Regulatory requirements are subject to change and may differ from one region to another; It is the user's responsibility to ensure that their activities comply with local, federal, state and local legislation.

CONTROLLED PRODUCT: Not applicable.

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#### 16. OTHER INFORMATION

Prepared by Via Brazil consultancy in transportation of dangerous goods

"This material safety data sheet for chemical products has been developed in accordance with the guidelines of the NBR 14725 issued by ABNT-Brazilian Association of technical standards. The information contained in this MSDS represents current data and accurately reflect our best knowledge about the appropriate handling of this product under normal conditions and according to the recommendations given on the packaging and in the technical literature. Considering the variety of factors that may affect processing and application, the information contained in this fact sheet does not disclaim liability processors to run their own tests and experiments. Any other use of the product involves the combined use with another product, or that use case other than indicated, is the sole responsibility of the user. "

#### REFERENCES:

[NBR 14725-4 / 2014] - Material Safety information Chemicals (MSDS)

[RESOLUTION No. 420 / 04 ANTT] Agency National Transportation - Supplementary Instructions Approves the Regulation of Land Transportation of Dangerous Goods.

[HSNO] NEW ZEALAND. HSNO Chemical Classification and Information Database (CCID)

[ECHA ] European Union. ECHA European Chemical Agency

TERRESTRIAL (RAILWAYS, ROADS): National Land Transport Agency (ANTT);

WATERWAYS (SEA, river, lake): International Maritime Dangerous Goods Code - Code (IMDG Code); Standard -5 Directorate of Ports and Coasts of the Navy Department (CPD): National Agency for Waterway Transportation (ANTAQ);

AIR: International Civil Aviation Organization - Technical Instructions (ICAO -TI). International Air Transport Association - Dangerous Goods Regulations (IATA - DGFT); National Civil Aviation Agency (ANAC).



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\* Abbreviations:

NA: Not Applicable

NA: Not available

OSHA: Administration of Occupational Safety and Health

LD50: lethal dose for 50% of the infected population

LC50: Lethal concentration for 50 % of the infected population

CAS: Chemical Abstracts Service

TLV - TWA: is the weighted average concentration allowed for a journey of 8 hours of work

TLV - STEL: is the exposure limit short - term maximum allowable concentration for continuous exposure of 15 minutes

ACGIH is an organization of personnel from government agencies or educational institutions engaged in programs of occupational health and safety .

ACGIH: develops and publishes exposure limits for hundreds of chemical substances and physical agents.

PEL: maximum allowable concentration of contaminants in air, to which most workers may be repeatedly exposed 8 hours daily, 40 hours a week during the work period ( 30 years), no adverse health effects.

OSHA: U.S. federal agency with authority to regulatory and compliance provisions in the area of safety and health for industries and businesses in the USA.

IMDG: International Maritime Code for Dangerous Goods - international code for the transport of hazardous materials by sea .

PNEC : Predicted No Effect Concentration .

ILO - International Labour Organization

MTE - Ministry of Labour and Employment