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JIMO
QUALIDADE COMPROVADA

SDS

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

SAFETY DATA SHEET

Product: JIMO Desengraxa

Revision: 01	Date: 11/24/2023	Pages: 1/7

1 - IDENTIFICATION

GHS Product identifier:	JIMO Desengraxa
Recommended use of the chemical:	Degreaser.
Specific restrictions on use:	There are not known restrictions on use.
Supplier`s details:	Jimo Química Industrial Ltda. **Address**: Rua Ítalo Raffo 693 - Distrito Industrial, CEP: 94930-240 - RS - Brasil. **Phone number**: +55 51 3470 67 55 **Email**: jimo@jimo.com.br
Emergency phone number:	+55 51 3470 67 55 / 0800 051 41 46

2 - HAZARD IDENTIFICATION

Classification of the substance or mixture:	Skin Corrosion/Irritation - Category 3; Skin Sensitization - Category 1; Hazardous to the Aquatic Environment - Acute Hazard - Category 2; Hazardous to the Aquatic Environment - Chronic Hazard - Category 3.
Classification system adopted:	Globally Harmonized System of Classification and Labeling of Chemicals (GHS), United Nations.

GHS label elements, including precautionary statements

Pictograms:	
Signal word:	WARNING
Hazard statement(s):	H316 Causes mild skin irritation. H317 May cause an allergic skin reaction. H401 Toxic to aquatic life. H412 Harmful to aquatic life with long lasting effects.
Precautionary statement(s):	**PREVENTION:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection. **RESPONSE TO EMERGENCY:** P302 + P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment. P332 + P317 If skin irritation occurs: Get medical help. P333 + P317 If skin irritation or rash occurs: Get medical help. P362 + P364 Take off contaminated clothing and wash it before reuse. **DISPOSITION:** P501 Dispose of contents and container in accordance with local regulations.

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Other hazards which do not result in classification:	The material has no other hazards.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Components contributing to the hazard:	Alcohols. C9-11. ethoxylated (CAS 68439-46-3): 3 - 9 %; D-limonene (CAS 138-86-3): 1 - 5 %; Isothiazolinone (CAS Not applicable): 0.05 - 0.5 %.

4 - FIRST-AID MEASURES

Description of necessary first-aid measures

Inhalation:	Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Skin:	Wash exposed skin with sufficient water to remove the material. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Take this document.
Eye:	Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.
Ingestion:	Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious person If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Most important symptoms/effects, acute and delayed:	May cause an allergic skin reaction with pruritus and dermatitis. Causes mild skin irritation with redness and dryness.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the material when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of water-electrolyte and metabolic disorders, in addition to respiratory assistance. In case of contact with the skin, do not rub the affected area.

5 - FIRE-FIGHTING MEASURES

Extinguishing media:	Appropriate: carbon dioxide (CO_2), foam, water mist and powder. Inappropriate: water jet directly.
Specific hazards arising from the chemical:	The combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Vapors can be denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. Containers may explode if heated.
Special protective actions for fire-fighters:	Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Isolate leak from ignition sources. Keep unauthorized people away from the area. Stop the leak if it can be done without risk. Do not smoke. Do not touch damaged containers or spilled material without wearing appropriate clothing. Avoid exposure to the material. Use personal protective equipment as described in section 8.
For emergency responders:	Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed shoes. In case of leakage, where exposure is high, it is recommended to use a suitable respiratory

	protection mask.
Environmental precautions:	Prevent spilled material from reaching waterways and sewage systems.
Methods and materials for containment and cleaning up:	Use water mist or vapor suppressant foam to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled material and place in appropriate containers. Adsorb the remaining material with dry sand, earth, vermiculite, or any other inert product. Place the adsorbed material in appropriate containers and remove them to a safe location. For final disposal, proceed as per Section 13 of this document.

7 - HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling:	Handle in a ventilated area or with a general local ventilation/exhaust system. Avoid formation of vapors and mists. Avoid exposure to the material, as the effects may not be felt immediately. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials.
General hygiene:	Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities

Technical measures for prevention of fire and explosion:	The material is not expected to present a fire or explosion hazard.
Conditions for safe storage, including any incompatibilities:	Store in a dry, well-ventilated place away from sunlight. Keep the container closed. It is not necessary addition of stabilizers and antioxidants to ensure the durability. Keep away from incompatible materials.
Packaging compatibilities:	Similar to the original packaging.
Inadequate packaging materials:	There are not known unsuitable material.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit:	The values below apply to workplaces. - <u>Diethylene glycol butyl ether:</u> ACGIH - TLV - TWA: 10 ppm (IFV); - <u>Triethanolamine:</u> ACGIH - TLV - TWA: 5 mg/m³. IFV: Inhalable fraction and vapor.
Biological limit:	Not established.
Other limits and values:	Not established.
Appropriate engineering controls:	A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help reduce exposure to the material. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection:	Safety glasses.
Skin protection:	Closed shoes and suitable protective clothing. Appropriate protective gloves.
Respiratory protection:	A risk assessment should be performed for proper definition of respiratory protection, in view of the material use conditions.
Thermal hazards:	It does not present thermal hazards.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Aspect:	Liquid, fluid, clear to opalescent.
Color:	Blue.
Odour:	Citric.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	Not available.
Flammability:	Not available.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	67.2 °C (152.96 °F) - Closed cup.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	8 to 10.
Kinematic viscosity:	Not available.
Solubility(ies):	Miscible in water.
Partition coeficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Relative vapour density:	Not available.
Density and/or relative density:	Absolute density: 0.95 to 1.05 g/cm³ at 25 °C (77 °F).
Particle characteristics:	Not applicable.
Other information:	Not applicable.

10 - STABILITY AND REACTIVITY

Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.

Chemical stability:	Stable under normal conditions of temperature and pressure.
Possibility of hazardous reactions:	There are not known hazardous reactions with the material.
Conditions to avoid:	Elevated temperatures. Contact with incompatible materials.
Incompatible material:	acid clays, acids, metals, mineral acids, Strong acids, strong base, strong oxidizers and strong oxidizing agents.
Hazardous decomposition products:	There are no known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic. ATEmix Dusts and mists (4h): > 5 mg/L. ATEmix Oral: > 5000 mg/kg. ATEmix Dermal: > 5000 mg/kg.
Skin corrosion/irritation:	Causes mild skin irritation with redness and dryness.
Serious eye damage/irritation:	It is not expected to cause eye irritation.
Respiratory or skin sensitization:	May cause an allergic skin reaction with pruritus and dermatitis. It is not expected to cause respiratory sensitization. The ingredient D-limonene is classified as a skin sensitizer and contributes to this product classification.
Germ cell mutagenicity:	It is not expected to show mutagenicity in germ cells.
Carcinogenicity:	It is not expected to be carcinogenic.
Reproductive toxicity:	It is not expected to be reproductively toxic.
STOT - Single exposure:	It is not expected to exhibit specific target organ toxicity by single exposure.
STOT - Repeated exposure:	It is not expected to exhibit specific target organ toxicity on repeated exposure.
Aspiration hazard:	It is not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity:	Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Information regarding to: - Alcohols, C9-11, ethoxylated: LC_{50} (Green algae, 72 h): 55 mg/L; LC_{50} (Fish, 96 h): 7.5 mg/L; EC_{50} (*Daphnia sp*, 48 h): 7.5 mg/L. - Isothiazolinone: EC_{50} (*Daphnia sp*, 48 h): 16 mg/L; LC_{50} (Fish, 96 h): 19 mg/L.
Persistence and degradability:	It is expected that the product presents persistence and it is not considered readily biodegradable.

Bioaccumulative potential:	Presents low bioacumulative potencial in aquatic organisms.
Mobility in soil:	Not determined.
Other adverse effects:	No other environmental effects known.

13 - DISPOSAL CONSIDERATIONS

Disposal methods

Treatment and disposal must be evaluated specifically for each material. Federal, state and municipal legislation must be consulted, including: Law No. 12,305, of August 2, 2010 (National Solid Waste Policy).
Keep remaining material in its original packaging and properly closed. Disposal must be carried out as established for the material.

14 - TRANSPORT INFORMATION

Road:	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	Not classified as hazardous for the road transportation.
Railway regulations:	COTIF - Convention concerning International Carriage by Rail: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.
UN number:	Not classified as dangerous for rail transport.
Sea:	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	Not classified as hazardous for water transportation.
Environmental hazards:	It's not considered a marine pollutant for transportation.
Air:	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	Not classified as dangerous for air transport.
Special precautions for user:	Not applicable.

15 - REGULATORY INFORMATION

Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

16 - OTHER INFORMATION

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

Change control:

Version	Manufacture date	Changes

In accordance with Globally Harmonized System of Classification and Labelling of Chemicals (GHS)- Chapter 1.5 and Annex 4

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Product: JIMO Desengraxa

Revision: 01	Date: 11/24/2023	Pages: 7/7

01	07/24/2023	Elaboration

Classification of the substance or mixture:	Health: 2 Flammability: 1 Instability: 0
Classification system adopted:	Hommel Diagram - National Fire Protection Association: NFPA 704
Classification of the substance or mixture:	Health: 2 Flammability: 1 Physical Hazard: 0
Classification system adopted:	National Paint & Coatings Association: NPCA

NFPA 704:

HMIS:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

Abbreviations:
ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
CAS - Chemical Abstracts Service;
EC_{50} - Effective concentration of substance that causes 50 % of the maximum response;
LC_{50} - Lethal Concentration 50%;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;
UN - United Nations.

Bibliographic references:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 9th rev. ed. New York: United Nations, 2021.