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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 Mata-Baratas Aerossol

Revision: 05	Date: 09/11/2023	Pages: 1/8

1 - IDENTIFICATION

GHS Product identifier:	JIMO Mata-Baratas Aerossol
Other means of identification:	41332
Recomended use of the chemical:	Insecticide.
Specific restrictions on use:	There are not known restrictions on use.
Suplier`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:	Aerosols - Category 2; Hazardous to the Aquatic Environment - Acute Hazard - Category 1; Hazardous to the Aquatic Environment - Chronic Hazard - Category 1.
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):	H223 Flammable aerosol. H229 Pressurized container: may burst if heated. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statement(s):	**PREVENTION:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source. P251 Do not pierce or burn, even after use. P273 Avoid release to the environment. **RESPONSE TO EMERGENCY:** P391 Collect spillage. **STORAGE:** P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. **DISPOSITION:** P501 Dispose of contents and container in accordance with local regulations.
Other hazards which do	The product has no other hazards.

not result in classification:

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Components contributing to the hazard:	Liquefied Petroleum Gas (LPG) (CAS 68476-85-7): 40 - 50 %; Imiprothrin (CAS 72963-72-5): 0.1 - 1 %; Cyphenothrin-S (CAS 39515-40-7): 0.1 - 1 %.

4 - FIRST-AID MEASURES

Description of necessary first-aid measures

Inhalation:	The gases can cause dizziness or suffocation. Remove the victim to a ventilated area and keep him at rest in a position that does not make breathing difficult. Monitor respiratory function. If the victim is breathing with difficulty, provide oxygen. If necessary, apply artificial respiration. Consult a doctor. Take this document.
Skin:	If the product comes into contact with the skin in pressurized form, injury or frostbite may occur. Immediately wash exposed skin with sufficient water. Clothes stuck to the skin must be defrosted with warm water before being removed. Consult a doctor. Take this document.
Eye:	If the pressurized product comes into contact with the eyes, injury or frostbite may occur. Immediately flush your eyes with sufficient water, keeping your eyelids open. If you use contact lenses, remove them if it is easy. Keep rinsing. Consult a doctor. Take this document.
Ingestion:	Not applicable.
Most important symptoms/effects, acute and delayed:	No symptoms and effects are expected after exposure to the material.
Indication of immediate medical attention and special treatment needed, if necessary:	Avoid contact with the product 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, powder and dry chemical powder. Inappropriate: water directly onto the burning material and water jet directly.
Specific hazards arising from the chemical:	The combustion of the chemical product or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Very dangerous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames from matches and cigarettes, welding operations, pilot lamps and electric motors. Gases can be denser than air and can accumulate in low-lying or confined areas, such as storm drains and basements. They can travel great distances, causing flame regression or new fires in both open and confined environments. Containers may explode if heated. Combustion of packaging can form irritating and toxic gases such as carbon monoxide and dioxide.
Special protective actions for fire-fighters:	If cargo is involved in fire, isolate and evacuate the area within a minimum radius of 1600 meters. Use self-contained respiratory protection equipment (SCBA) with positive pressure and complete 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:	Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without wearing appropriate clothing. Avoid exposure to the product. Stay away from low areas, with the wind at your back. Use personal protective equipment as described in section 8.
For emergency responders:	Isolate leak from ignition sources. Evacuate the area within a radius of at least 100 meters. Keep unauthorized people away from the area. Stop the leak if it can be done without risk.
Environmental precautions:	Prevent dispersed gas from reaching waterways and sewage systems.
Methods and materials for containment and cleaning up:	Release contents slowly into the atmosphere. Stay downwind. Do not pour water directly onto the leak point. Due to the dispersion of the product in the environment, it is recommended that the area be ventilated until the area is released. 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 gases and aerosols. Avoid exposure to the product, 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:	Keep away from heat, sparks, open flames and hot surfaces. - Do not smoke. Keep the container tightly closed. Ground the container vessel and product receiver during transfers. Only use non-sparking tools. Avoid the accumulation of electrostatic charges. Use explosion-proof electrical, ventilation and lighting equipment.
Conditions for safe storage, including any incompatibilities:	Store in a dry, well-ventilated place away from sunlight. Keep the container closed. Keep stored at room temperature not exceeding 35°C. 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>Liquefied Petroleum Gas (LPG):</u> OSHA - PEL - TWA: 1000 ppm; 1800 mg/m³; NIOSH - REL - TWA: 1000 ppm (1800 mg/m³); ACGIH - TLV - TWA: See Appendix F: Minimal Oxygen Content (D; EX). D: Simple asphyxiant; EX: Explosion hazard: the substance is a flammable asphyxiant or excursions above the TLV® could approach 10% of the lower explosive limit.
Biological limit:	Not established.

Other limits and values:	Not established.
Appropriate engineering controls:	Provide mechanical ventilation and a direct exhaust system to the outside environment. These measures help reduce exposure to the product. 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 glass side shields.
Skin protection:	Define the use of skin and body protection based on workplace risk assessment. 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, compressed.
Color:	Colorless.
Odour:	Characteristic.
Melting point/freezing point:	Not applicable.
Boiling point or initial boiling point and boiling range:	190 to 261 °C (374 to 501.8 °F) at 101.325 kPa.
Flammability:	Not available.
Lower and upper explosion limit/flammability limit:	Not applicable.
Flash point:	117.6 °C (243.68 °F) - Closed cup.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not applicable.
pH:	Not available.
Kinematic viscosity:	Not applicable.
Solubility(ies):	Immiscible in water. Miscible in practically all organic solvents.
Partition coeficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not applicable.
Relative vapour density:	Not applicable.
Density and/or relative density:	Relative density: 0.75 to 0.8 at 20 °C (68 °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:	Product stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	There are not known hazardous reactions with the material.
Conditions to avoid:	Elevated temperatures. Ignition sources. Contact with incompatible materials.
Incompatible material:	Alkaline metals and Oxidizing Agents.
Hazardous decomposition products:	There are no known hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic by oral and dermal. ATEmix Dermal: > 5000 mg/kg. LD_{50} Oral (rats): >2000 mg/kg.
Skin corrosion/irritation:	It is not expected to cause skin irritation.
Serious eye damage/irritation:	It is not expected to cause eye irritation.
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.
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:	Very toxic to aquatic life with long lasting effects. Information regarding to: - Imiprothrin: LC_{50} (*Oncorhynchus kisutch*, 96 h): 0.038 mg/L; EC_{50} (*Daphnia magna*, 48 h): 0.051 mg/L; ErC_{50} (*Selenastrum capricornutum*, 72 h): 3.1 mg/L. - Cyphenothrin-S: LC_{50} (*Oncorhynchus mykiss*, 96 h): 0.00038 mg/L; EC_{50} (*Daphnia magna*, 48 h): 0.0012 mg/L.
Persistence and	It is expected that the product presents persistence and it is not considered readily biodegradable.

degradability:	
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 product. Federal, state and municipal legislation must be consulted, including: Law No. 12,305, of August 2, 2010 (National Solid Waste Policy).
Keep product residues in their original packaging and properly closed. Disposal must be carried out as established for the product.

14 - TRANSPORT INFORMATION

Road:	UN - United Nations: Model Regulations: • Recommendations on the Transport of Dangerous Goods.
UN number:	1950
Proper shipping name:	AEROSOLS
Primary risk class or division:	2.1
Subsidiary risk class or division:	NA
Packing group:	NA
Railway regulations:	COTIF - Convention concerning International Carriage by Rail: • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.
UN number:	1950
Proper shipping name:	AEROSOLS
Primary risk class or division:	2.1
Subsidiary risk class or division:	NA
Packing group:	NA
Sea:	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	1950
Proper shipping name:	AEROSOLS
Primary risk class or division:	2.1
Subsidiary risk class or division:	NA
Packing group:	NA

SAFETY DATA SHEET

Product: JIMO Mata-Baratas Aerossol

EmS:	F-D,S-U
Environmental hazards:	The product is considered a marine pollutant.
Air:	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	1950
Proper shipping name:	AEROSOLS
Primary risk class or division:	2.1
Subsidiary risk class or division:	NA
Packing group:	NA
Special precautions for user:	Not applicable.

15 - REGULATORY INFORMATION

Federal Decree No. 10,088, of November 5, 2019;
ABNT-NBR 14725 standard;
Regulatory Standard nº 26 (Safety signs), from the Ministry of Labor and Social Security.

16 - OTHER INFORMATION

This document was prepared based on current knowledge on the appropriate handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product that involves its combination with other materials, in addition to forms of use other than those indicated, is the responsibility of the user. Please note that handling any chemical substance requires prior knowledge of its dangers by the user. In the workplace, it is up to the company using the product to train its employees regarding the possible risks arising from exposure to the chemical product.

Change control:

Version	Manufacture date	Changes
05	09/11/2023	Change in section: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 and 16.

Classification of the substance or mixture:	Health: 0 Flammability: 4 Instability: 0 Specific: Not classified
Classification system adopted:	Hommel Diagram - National Fire Protection Association: NFPA 704
Classification of the substance or mixture:	Health: 0 Flammability: 4 Physical Hazard: 0 Personal Protection: Not classified

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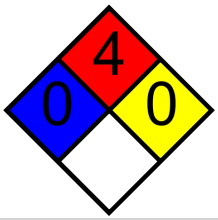
Classification system adopted: National Paint & Coatings Association: NPCA

NFPA 704:



HMIS:

HEALTH	/	0
FLAMMABILITY		4
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 - European Community;
EC_{50} - Effective concentration of substance that causes 50 % of the maximum response;
EEC - European Economic Community;
ErC_{50} - Effective concentration that results in a 50% reduction in the growth rate;
LC_{50} - Lethal Concentration 50%;
NIOSH - National Institute for Occupational Safety and Health;
OSHA - Occupational Safety & Health Administration;
PEL - Permissible Exposure Limit;
REL - Recommended Exposure Limit;
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.

REACH - REGISTRATION, EVALUATION, AUTHORIZATION AND RESTRICTION OF CHEMICALS. Commission Regulation (EC) No 1272/2008 of December 2008 amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals. Available at: < http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF >. Access in: Sep. 2023.