

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

## SAFETY DATA SHEET

**Product:** JIMO Cupim Aerossol

Revision: 07

Date: 11/08/2023

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### 1 - IDENTIFICATION

|                                  |   |
|----------------------------------|---|
| GHS Product identifier:          | JIMO Cupim Aerossol   |
| Other means of identification:   | 41692   |
| Recommended use of the chemical: | Wood preservative.  |
| Specific restrictions on use:    | There are not known restrictions on use.  |
| Supplier's details:              | Jimo Química Industrial Ltda.<br><b>Address:</b> Rua Ítalo Raffo 693 - Distrito Industrial, CEP: 94930-240 - RS - Brasil.<br><b>Phone number:</b> +55 51 3470 67 55<br><b>Email:</b> 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;<br>Acute Toxicity - Oral - Category 4;<br>Hazardous to the Aquatic Environment - Acute Hazard - Category 1;<br>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.<br>H229 Pressurized container: may burst if heated.<br>H302 Harmful if swallowed.<br>H410 Very toxic to aquatic life with long lasting effects.   |
| Precautionary statement(s): | <b>PREVENTION:</b><br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P211 Do not spray on an open flame or other ignition source.<br>P251 Do not pierce or burn, even after use.<br>P264 Wash hands thoroughly after handling.<br>P270 Do not eat, drink or smoke when using this product.<br>P273 Avoid release to the environment.<br><br><b>RESPONSE TO EMERGENCY:</b><br>P301 + P317 IF SWALLOWED: Get medical help.<br>P330 Rinse mouth.<br>P391 Collect spillage. |

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**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 not result in classification: The material has no other hazards.

### 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**MIXTURE**

|  |  |
|--|--|
| Components contributing to the hazard: | Liquefied Petroleum Gas (LPG) (CAS 68476-85-7): 60 -80 %;<br>Cypermethrin (CAS 52315-07-8): 0.1 - 1 %. |
|--|--|

### 4 - FIRST-AID MEASURES

**Description of necessary first-aid measures**

|   |   |
|---|---|
| Inhalation:   | Gases and vapors can cause dizziness or suffocation. Remove victim to fresh air and keep in a position that does not obstruct breathing. Monitor respiratory function. If the victim is breathing hard, give oxygen. If necessary, apply artificial respiration. Consult a doctor. Bring this document. |
| Skin:   | In case of contact of the material in pressurized form with the skin, injury or frostbite may occur. Wash exposed skin with a sufficient amount of water. Clothing that adheres to the skin should be thawed with warm water before being removed. Consult a doctor. Bring this document.               |
| Eye:  | In case of contact with the eyes of the material in pressurized form, injury or frostbite may occur. Flush eyes with a sufficient amount of water, keeping eyelids open. If wearing contact lenses, remove them if it is easy. Keep rinsing. 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:                                   | Harmful if swallowed.   |
| 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 hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.         |

### 5 - FIRE-FIGHTING MEASURES

|   |   |
|---|---|
| Extinguishing media:                        | Appropriate: carbon dioxide (CO <sub>2</sub> ), water mist and dry chemical powder.<br>Inappropriate: water directly onto the burning material.   |
| Specific hazards arising from the chemical: | Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide.<br>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 lights and electric motors. Gases can be denser than air and can accumulate in low-lying or confined areas such as storm drains and basements. It can travel great distances causing the flame to retreat or new fires in both open and confined environments. Containers may explode if heated. |
| Special protective                          | Do not extinguish fire on gas leaks unless the leak can be contained. If the load is involved in fire,  |

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actions for fire-fighters: isolate and evacuate the area to a minimum radius of 1600 meters. 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 the leakage from sources of ignition. Keep unauthorized persons out of the area and away from windows. Stop the leakage if it can be done without risk. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled material without proper clothing. Avoid exposure to the material. Stay in a safe place, with the wind at your back. 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: Avoid that the spilled material reaches waterways or sewage system.

Methods and materials for containment and cleaning up: For the gas phase: Release contents slowly into the atmosphere. Stay downwind. Do not pour water into the spill or the source of the leakage. Due to the dispersion of the material in the environment, it is recommended that the area be ventilated until the release the place. All equipment used to contain the material must be grounded. Do not dispose of used or damaged containers directly into the environment or sewage system.

For the liquid phase: Use water mist to reduce material dispersion. Use natural or spill containment barriers. Collect spilled materials and place them in appropriate containers. Adsorb the remaining material with dry sand, earth, vermiculite, or any inert product. Place the adsorbed material in proper containers and remove them to a safe place. Use non-sparking tools to pick up absorbed material. For final disposal, proceed according to Section 13 of this document.

### 7 - HANDLING AND STORAGE

#### Precautions for safe handling

Precautions for safe handling: Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid gases and aerosols formation. Avoid exposure to the material, since 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 flame, and hot surfaces. Do not smoke. Keep the container tightly closed. Ground the container vessel and material 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. It is not necessary addition of stabilizers and antioxidants to ensure the durability. This material may react dangerously with some incompatible materials as outlined in Section 10. Keep away from incompatible materials.

Packaging compatibilities: Similar to the original packaging.

Inadequate packaging: There are not known unsuitable material.

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materials:

### 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

|                              |   |
|------------------------------|---|
| Occupational exposure limit: | The values below apply to workplaces.<br><br>- <u>Liquefied Petroleum Gas (LPG)</u> :<br>OSHA - PEL - TWA: 1000 ppm (1800 mg/m <sup>3</sup> ) (29 CFR 1910.1000 Table Z-1) (CFR);<br>NIOSH - REL - TWA: 1000 ppm (1800 mg/m <sup>3</sup> );<br>ACGIH - TLV - TWA: (AF; D; EX).<br><br>D: Simple asphyxiant;<br>EX: Explosion hazard: the substance is a flammable asphyxiant or excursions above the TLV® could approach 10% of the lower explosive limit;<br>AF: See Appendix F: Minimal Oxygen Content.<br>CFR: See mentioned item in OSHA CFR. |
| 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 to 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, compressed.                    |
| Color:  | Colorless.                             |
| Odour:  | Characteristic.                        |
| Melting point/freezing point:                             | Not applicable.                        |
| Boiling point or initial boiling point and boiling range: | 248.5 to 266.5 °C (479.3 to 511.7 °F). |
| Flammability:   | Not available.                         |
| Lower and upper explosion limit/flammability limit:       | Not applicable.                        |
| Flash point:  | Not applicable.                        |

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|   |  |
|---|--|
| Auto-ignition temperature:                        | Not available.                                     |
| Decomposition temperature:                        | Not applicable.                                    |
| pH:   | Not available.                                     |
| Kinematic viscosity:                              | Not applicable.                                    |
| Solubility(ies):                                  | Immiscible in water. Miscible in 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: 0.77 to 0.82 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: | Liquefied Petroleum Gas (LPG): The combination of nickel, carbonyl, oxygen and N-butane with LPG results in explosion at temperatures between 20-40 ° C. |
| Conditions to avoid:                | Elevated temperatures. Ignition sources. Contact with incompatible materials.  |
| Incompatible material:              | Chlorine, Nickel, Oxidizing Agents, Oxygen, Strong Acids, Strong base 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 by dermal.<br>Harmful if swallowed.<br>LD <sub>50</sub> Oral (rats): >2000 mg/kg.<br>ATEmix Dermal: > 5000 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.  |

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|                           |  |
|---------------------------|--|
| 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.<br><br>Information regarding to:<br>- <u>Cypermethrin</u> :<br>EC <sub>50</sub> ( <i>Daphnia magna</i> , 48 h): 0.00015 mg/L;<br>LC <sub>50</sub> ( <i>Oncorhynchus mykiss</i> , 96 h): 0.00048 mg/L. |
| Persistence and degradability: | It is expected that the product presents persistence and it is not considered readily biodegradable.  |
| Bioaccumulative potential:     | Presents low bioaccumulative potencial in aquatic organisms.  |
| Mobility in soil:              | Not determined.   |
| Other adverse effects:         | No other environmental effects known.   |

### 13 - DISPOSAL CONSIDERATIONS

#### Disposal methods

Must be disposed of as hazardous waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific material.  
Keep the material remains in its original and properly closed containers. Disposal should be performed as established for the material.

### 14 - TRANSPORT INFORMATION

|                                    |  |
|------------------------------------|--|
| <b>Road:</b>                       | UN - United Nations: Model Regulations:<br>• 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   |
| <b>Railway regulations:</b>        | COTIF - Convention concerning International Carriage by Rail:<br>• Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail. |
| UN number:                         | 1950   |
| Proper shipping name:              | AEROSOLS   |

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 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

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

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 materials, 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                |
|---------|------------------|------------------------|
| 07      | 11/06/2023       | Change in section: 12. |

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Classification of the  
substance or mixture: Health: 1  
Flammability: 4  
Instability: 0

Classification system  
adopted: Hommel Diagram - National Fire Protection Association: NFPA 704

Classification of the  
substance or mixture: Health: 1  
Flammability: 4  
Physical Hazard: 0

Classification system  
adopted: National Paint & Coatings Association: NPCA

NFPA 704:



HMIS:

|                     |   |   |
|---------------------|---|---|
| HEALTH              | / | 1 |
| 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<sub>50</sub> - Effective concentration of substance that causes 50 % of the maximum response;  
EEC - European Economic Community;  
LC<sub>50</sub> - 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

Desde 1956



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(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: Nov. 2023.