

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 Marrom Inseticida Residual

Revision: 05

Date: 02/09/2024

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1 - IDENTIFICATION

GHS Product identifier:	JIMO Cupim Marrom Inseticida Residual
Other means of identification:	90268
Recommended use of the chemical:	Termiteicide.
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:	Flammable Liquids - Category 3; Acute Toxicity - Oral - Category 4; Skin Corrosion/Irritation - Category 2; Serious eye damage/eye irritation - Category 2A; Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic; Specific Target Organ Toxicity – Repeated Exposure - Category 2; Hazardous to the Aquatic Environment - Acute Hazard - Category 1; Hazardous to the Aquatic Environment - Chronic Hazard - Category 2.
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):	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to the respiratory system, to the kidneys, to the skin, to the upper respiratory tract and to the lower respiratory tract through prolonged or repeated exposure. H400 Very toxic to aquatic life. H411 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. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment.

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P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.

RESPONSE TO EMERGENCY:

P301 + P317 IF SWALLOWED: Get medical help.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P319 Get medical help if you feel unwell.
P321 Specific treatment.
P330 Rinse mouth.
P332 + P317 If skin irritation occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use carbon dioxide (CO₂), foam, water mist and powder to extinguish.
P391 Collect spillage.

STORAGE:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

DISPOSITION:

P501 Dispose of contents and container in accordance with local regulations.

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

3 - COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Components contributing to the hazard:	Naphtha (petroleum). hydrodesulfurized heavy (CAS 64742-82-1): 80 - 90 %; Asphalt (CAS 8052-42-4): 10 - 20 %; Alpha pinenes. dipentene and diphenyl oxide (CAS Not applicable): 0.1 - 1 % ¹ ; Ortho-phenylphenol (CAS 90-43-7): 0.1 - 1 % ² ; Cypermethrin (CAS 52315-07-8): 0.1 - 1 %.
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¹ It does not have a CAS number because it is a mixture not registered in the Chemical Abstract Service database.

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² The hazards arising from the inhalation of this ingredient are not parameters for the classification of the mixture, since, both the physico-chemical characteristics and the adequate understanding of specialists, when a solid ingredient in the form of powder is diluted in a liquid mixture, it's not biologically available to cause its harms.

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 amount of water to remove the product. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring 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:	Causes skin irritation with redness, pain and dryness. Causes serious eye irritation with redness and pain. Harmful if swallowed. May cause drowsiness or dizziness, may cause dizziness and nausea. May cause damage to the kidneys, lower respiratory tract, respiratory system, skin and upper respiratory tract through prolonged or repeated exposure.
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 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 ₂), foam, water mist and powder. 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. 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. May build up static charge by flow or agitation. Vapors from heated product can ignite by static discharge. Vapors are denser than air and tend to 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 actions for fire-fighters:	If the load is involved in fire, isolate and evacuate the area to a minimum radius of 800 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 product without proper clothing. Avoid exposure to the product. Stay in a safe place, with the wind at your back. Use personal protective equipment as described in section 8.
For emergency	Wear complete PPE with safety glasses, safety gloves, suitable protective clothing and closed

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responders:	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 product reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Use water mist to reduce the dispersion of vapors. Use natural or spill containment barriers. Collect spilled products and place them in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or any inert product. Place the adsorbed product in proper containers and remove it to a safe place. Use non-sparking tools to pick up the product. All equipment used must not be electrically grounded. For final disposal, proceed according to Section 13 of this document. Large spill: confine the liquid into a dike away from the spills for later and proper disposition. Water mist can be used to reduce of vapors, but it wont prevent ignition in closed environments.

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 vapors and mists formation. Handling the product can result in electrostatic charge buildup. All ignition sources must be extinguished from areas during use. Use proper grounding procedures. 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 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. 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>Asphalt:</u> OSHA - PEL - TWA: (29 CFR 1910.1002, Coal tar pitch volatiles; interpretation of term) (CFR); NIOSH - REL - TWA: (Ca) (AA) (AC); NIOSH - REL - Ceiling: 5 mg/m³ [15-min]; ACGIH - TLV - TWA: 0.5 mg/m³ (I). I: Inhalable particulate matter; Ca: Potential occupational carcinogen. AA: See NIOSH REL Appendix A; AC: See NIOSH REL Appendix C;
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	CFR: See mentioned item in OSHA CFR.
Biological limit:	- <u>Asphalt</u>: ACGIH - BEI: Determinant: 1-Hydroxypyrene in urine. Sampling time: End of shift at the end of the work week. Index: 2.5 µg/L ***. Notation: B. NOTE: H. Determinant: 3-Hydroxybenzo(a)pyrene in urine. Sampling time: End of shift at the end of the work week. Index: -. Notation: Nq. NOTE: H. B: The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect the interpretation of the results. Such background concentrations are incorporated in the BEI value; Nq: Biological monitoring should be considered for this compound based on the review; however, a specific BEI could not be determined due to insufficient data. H: The analytical method requires hydrolysis. ***: Adjusted for the Pyrene to Benzo(a)pyrene ratio of the PAH mixture to which workers are exposed.
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 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 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.
Color:	Brown.
Odour:	Characteristic.
Melting point/freezing point:	Not available.
Boiling point or initial boiling point and boiling range:	166.4 °C (331.52 °F).
Flammability:	Flammable.
Lower and upper explosion limit/flammability limit:	Not available.
Flash point:	37 °C (98.6 °F) - Closed cup.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.

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pH:	Not applicable.	
Kinematic viscosity:	Not available.	
Solubility(ies):	Immiscible in water. Miscible in organic solvents.	
Partition coefficient n-octanol/water (log value):	Not available.	
Vapour pressure:	Not available.	
Relative vapour density:	Not available.	
Density and/or relative density:	Relative density: 0.78 to 0.84 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:	Stable under normal temperature and pressure conditions.
Possibility of hazardous reactions:	There are not known hazardous reactions with the material.
Conditions to avoid:	High temperatures. Ignition sources. Contact with incompatible materials.
Incompatible material:	Strong acids, strong base and strong oxidizing agents.
Hazardous decomposition products:	No dangerous decomposition products are known.

11 - TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic by dermal. Harmful if swallowed. LD ₅₀ Oral (rats): >2000 mg/kg. ATEmix Dermal: > 5000 mg/kg.
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.
Serious eye damage/irritation:	Causes serious eye irritation with redness and pain.
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:	May cause drowsiness or dizziness, may cause dizziness and nausea.
STOT - Repeated	May cause damage to the kidneys, lower respiratory tract, respiratory system, skin and upper

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exposure: respiratory tract through prolonged or repeated exposure.
Aspiration hazard: It is not expected to present an aspiration hazard.

12 - ECOLOGICAL INFORMATION

Toxicity: Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Information regarding to:
- Ortho-phenylphenol:
NOEC (*Daphnia magna*, 21 d): 0.009 mg/L;
NOEC (*Pimephales promelas*, 21 d): 0.036 mg/L;
NOEC (*Pseudokirchneriella subcapitata*, 72 h): 0.468 mg/L;
EC₅₀ (*Daphnia magna*, 48 h): 2.7 mg/L;
ErC₅₀ (*Pseudokirchneriella subcapitata*, 72 h): 3.57 mg/L;
LC₅₀ (*Danio rerio*, 96 h): 4.5 mg/L.
- Cypermethrin:
EC₅₀ (*Daphnia magna*, 48 h): 0.00015 mg/L;
LC₅₀ (*Oncorhynchus mykiss*, 96 h): 0.00048 mg/L.

Persistence and degradability: It has persistence and is not considered rapidly degradable.

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**

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

14 - TRANSPORT INFORMATION

Road: UN - United Nations: Model Regulations:
• Recommendations on the Transport of Dangerous Goods.

UN number: 1306

Proper shipping name: WOOD PRESERVATIVES, LIQUID

Primary risk class or division: 3

Subsidiary risk class or division: NA

Packing group: III

Railway regulations: COTIF - Convention concerning International Carriage by Rail:
• Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.

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UN number:	1306
Proper shipping name:	WOOD PRESERVATIVES, LIQUID
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
Sea:	IMO - International Maritime Organization: • IMDG Code - International Maritime Dangerous Goods Code.
UN number:	1306
Proper shipping name:	WOOD PRESERVATIVES, LIQUID
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
EmS:	F-E,S-D
Environmental hazards:	The product is considered a marine pollutant.
Air:	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	1306
Proper shipping name:	WOOD PRESERVATIVES, LIQUID
Primary risk class or division:	3
Subsidiary risk class or division:	NA
Packing group:	III
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:

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Version	Manufacture date	Changes
05	02/09/2024	Change in composition. Change in section: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 16.

Classification of the
substance or mixture:

Health: 2
Flammability: 3
Instability: 0

Classification system
adopted:

Hommel Diagram - National Fire Protection Association: NFPA 704

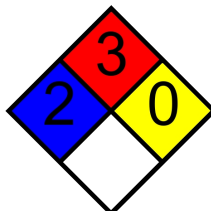
Classification of the
substance or mixture:

Health: 2*
Flammability: 3
Physical Hazard: 0

Classification system
adopted:

National Paint & Coatings Association: NPCA

NFPA 704:



HMIS:

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
BEI - Biological Exposure Index;
CAS - Chemical Abstracts Service;
Ceiling - The concentration that should not be exceeded during any part of the working exposure.
EC - European Community;
EC₅₀ - Effective concentration of substance that causes 50 % of the maximum response;
EEC - European Economic Community;
ErC₅₀ - Effective concentration that results in a 50% reduction in the growth rate;
LC₅₀ - Lethal Concentration 50%;
LD₅₀ - Lethal Dose 50%;
NIOSH - National Institute for Occupational Safety and Health;
NOEC - No Observed Effect Concentration;
OSHA - Occupational Safety & Health Administration;
PEL - Permissible Exposure Limit;
REL - Recommended Exposure Limit;
TLV - Threshold Limit Value;
TWA - Time Weighted Average;

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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. 10th rev. ed. New York and Geneva: United Nations, 2023.

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: Feb. 2024.