

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

SAFETY DATA SHEET

Product: Jimo Lava Máquinas de Roupas

Revision: 03

Date: 07/06/2026

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SECTION 1: IDENTIFICATION

GHS product identifier: Jimo Lava Máquinas de Roupas

Other means of
identification: 97739

Recommended use of
the chemical and
restrictions on use: Cleaning of the washer, removing accumulation of dirt, soap residue, and fabric softener that can
stain clothes.

Supplier's details: Jimo Química Industrial Ltda.
Address: Rua Ítalo Raffo 693 - Distrito Industrial, CEP: 94930-240 - RS - Brazil.
Phone number: +55 51 3470 67 55
E-mail: jimo@jimo.com.br

Emergency phone
number: +55 51 3470 67 55 / 0800 051 41 46

SECTION 2: HAZARD IDENTIFICATION

Classification of the
substance or mixture: Acute Toxicity - Oral - Category 5;
Acute Toxicity - Dermal - Category 5;
Skin Corrosion/Irritation - Category 3;
Serious eye damage/eye irritation - Category 2;
Respiratory Sensitization - Category 1;
Skin Sensitization - Category 1;
Hazardous to the Aquatic Environment - Acute Hazard - Category 3;
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: DANGER

Hazard statement(s): H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary
statement(s): **PREVENTION:**
P233 Keep container tightly closed.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 + P265 Wash hands thoroughly after handling. Do not touch eyes.
P271 Use only outdoors or with adequate ventilation.

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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.
P284 In case of inadequate ventilation wear respiratory protection.

RESPONSE TO EMERGENCY:

P302 + P317 IF ON SKIN: Get medical help.
P302 + P352 IF ON SKIN: Wash with plenty of water.
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.
P321 Specific treatment.
P332 + P317 If skin irritation occurs: Get medical help.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P342 + P316 If experiencing respiratory symptoms: Get emergency medical help immediately.
P362 + P364 Take off contaminated clothing and wash it before reuse.

STORAGE:

P403 Store in a well-ventilated place.

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE

Components contributing to the hazard:

Product identifier	CAS/EC	Concentration range (%)
Sulphamidic acid	5329-14-6 226-218-8	10 - 50
Sodium carbonate	497-19-8	10 - 50
Sodium metasilicate	10213-79-3	5 - 10
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8 287-809-4	5 - 10
Enzyme Medley Optiwash 1750 S ¹	NA	5 - 10
Tetrasodium glutamate diacetate	51981-21-6 257-573-7	1 - 5
Nabion 26 ¹	NA	1 - 5
Silicic Acid Sodium Salt	1344-09-8	1 - 5
Citrus fragrance ¹	NA	1 - 5

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Sodium salts of C14-16 hydroxyalkane and C14-16 alkene sulfonic acids	68439-57-6 931-534-0	1 - 5
Polyacrylic acid	9003-01-4	0.5 - 1

¹ It does not have a CAS number because it is a mixture not registered in the Chemical Abstract Service database.
 NA: Not applicable.

SECTION 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:	May cause an allergic skin reaction with pruritus and dermatitis. Causes mild skin irritation with redness and dryness. Causes serious eye irritation with redness and pain. May cause allergy or asthma symptoms or breathing difficulties if inhaled with shortness of breath and tiredness. May be harmful if swallowed. May be harmful in contact with skin.
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.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:	Suitable: carbon dioxide (CO ₂), foam, water mist and powder. Unsuitable: water jet directly.
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. 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.

SECTION 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 away from the area. Stop the leakage if it can be done without risk. 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 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.

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Environmental precautions:	Avoid that the spilled product reaches waterways or sewage system.
Methods and materials for containment and cleaning up:	Collect the product with a clean shovel or another instrument that does not disperse the product. Place the adsorbed product in proper containers and remove it to a safe place. For final disposal, proceed according to Section 13 of this document.

SECTION 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 dust formation. 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:	It is not expected that the product presents 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. 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 materials:	There are not known unsuitable material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit:	No occupational exposure limits are established.
Biological limit:	No biological indicators of exposure are established.
Other limits and values:	No other limits and values are 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.

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

Eye/face protection:	Protective glasses.
Skin protection:	Closed shoes and appropriate protective clothing. Suitable 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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid in tablet.
Colour:	White.
Odour:	Slightly citrus.
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:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
pH:	9 to 10.
Kinematic viscosity:	Not available.
Solubility:	Soluble in water.
Partition coefficient n-octanol/water (log value):	Not available.
Vapour pressure:	Not available.
Density and/or relative density:	Not available.
Relative vapour density:	Not available.
Particle characteristics:	Not available.
Other information:	Not applicable.

SECTION 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.

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Possibility of hazardous reactions:	- <u>Sulphamidic acid</u>: Risk of explosion in the presence of: chlorine. Exothermic reaction with: halogens, alkaline residues, oxidants, nitrates, nitrites, nitric acid, metals, water, strong bases. - <u>Sodium carbonate</u>: Strong acids produce exothermic reactions and release of CO₂. It reacts dangerously with lithium, aluminum, fluoride and acids.
Conditions to avoid:	High temperatures. Contact with incompatible materials.
Incompatible materials:	Acids, alkaline earth metals, alkaline metals, ammonia, cationic substances, chloro trifluoride, fluorine, hydrofluoric acid, metals, non metallic oxides, oxidizing agents, oxygen difluoride, phosphorus oxides, sodium hydroxide, strong acids, strong basic amines, strong oxidizers and strong oxidizing agents.
Hazardous decomposition products:	No dangerous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic by inhalation. May be harmful if swallowed. May be harmful in contact with skin. ATEmix Oral: 2287.63 mg/kg. ATEmix Dermal: 4050.074 mg/kg. ATEmix Dusts and mists (4h): > 5 mg/L. Information regarding to: - <u>Sulphamidic acid</u>: LD₅₀ Oral (rats): 1050 mg/kg. LD₅₀ Dermal (rats): 2000 mg/kg - <u>Sodium carbonate</u>: LD₅₀ Oral (rats): 2800 mg/kg. LD₅₀ Dermal (rabbits): 2000 mg/kg - <u>Sodium metasilicate</u>: LD₅₀ Oral (rats): 1280 mg/kg - <u>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts</u>: LD₅₀ Oral (rats): 2000 mg/kg - <u>Tetrasodium glutamate diacetate</u>: LD₅₀ Oral (rats): 2000 mg/kg - <u>Silicic Acid Sodium Salt</u>: LD₅₀ Oral (rats): 3400 mg/kg - <u>Sodium salts of C14-16 hydroxyalkane and C14-16 alkene sulfonic acids</u>: LD₅₀ Oral (rats): > 2200 mg/kg. LD₅₀ Dermal (rabbits): > 2200 mg/kg.
Skin corrosion/irritation:	Causes mild skin irritation with redness and dryness.
Serious eye damage/irritation:	Causes serious eye irritation with redness and pain.

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Respiratory or skin sensitization:	May cause an allergic skin reaction with pruritus and dermatitis. May cause allergy or asthma symptoms or breathing difficulties if inhaled with shortness of breath and tiredness. Information regarding to: - <u>Enzyme Medley Optiwash 1750 S:</u> Sensitizing (human experience).	
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.	

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Harmful to aquatic life with long lasting effects. Information regarding to: - <u>Sulphamidic acid:</u> NOEC (<i>Daphnia magna</i> , 21d): > 1 mg/L; ErC ₅₀ (<i>Desmodesmus subspicatus</i> , 72 h): 48 mg/L; LC ₅₀ (<i>Pimephales promelas</i> , 96 h): 70.3 mg/L; EC ₅₀ (<i>Daphnia magna</i> , 48 h): 71.6 mg/L. - <u>Sulfuric acid, mono-C12-14-alkyl esters, sodium salts:</u> NOEC (Green algae, 72 horas): 0.6 mg/L; LC ₅₀ (Green algae, 72 h): 20 mg/L; LC ₅₀ (Fish, 96 h): 3.6 mg/L; EC ₅₀ (<i>Daphnia magna</i> , 48 h): 4.7 mg/L. - <u>Enzyme Medley Optiwash 1750 S:</u> EC ₅₀ (<i>Daphnia sp.</i> , 48 h): 0.586 mg/L; ErC ₅₀ (Green algae, 72 h): 0.83 mg/L; LC ₅₀ (<i>Danio rerio</i> , 96 h): 8.2 mg/L. - <u>Sodium salts of C14-16 hydroxyalkane and C14-16 alkene sulfonic acids:</u> NOEC (<i>Daphnia magna</i> , 21 dias): > 2.5 mg/L; NOEC (<i>Skeletonema costatum</i> , 72 horas): 1.2 mg/L; ErC ₅₀ (<i>Skeletonema costatum</i> , 72 h): 1.97 mg/L; EC ₅₀ (<i>Acartia tonsa</i> , 48 h): 2.08 mg/L; LC ₅₀ (<i>Danio rerio</i> , 96 h): 4.2 mg/L; EC ₅₀ (<i>Ceriodaphnia dubia</i> , 48 h): 4.53 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. Information regarding to: - <u>Sulphamidic acid:</u> log K _{ow} : 0.1.	
Mobility in soil:	Not determined.	

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Other adverse effects: No other environmental effects known.

SECTION 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.

SECTION 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.

Environmental hazards: The product is not considered dangerous for the environment for land transport.

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.

Environmental hazards: The product is not considered dangerous for the environment in 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.

Environmental hazards: The product is not considered dangerous for the environment for air transport.

Special precautions for user: Not applicable.

Transport in bulk according to IMO instruments: Consult regulations:
• International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;
• International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

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SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question

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

SECTION 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
03	10/09/2025	Change in composition. Change in section: 1, 2, 3, 4, 7, 9, 10, 11, 12 and 14.

Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;
ATEmix - Acute Toxicity Estimate of the mixture;
CAS - Chemical Abstracts Service;
EC₅₀- Effective concentration of substance that causes 50 % of the maximum response;
ErC₅₀- Effective concentration that results in a 50% reduction in the growth rate;
K_{ow}- Octanol-water partition coefficient;
LC₅₀- Lethal Concentration 50%;
LD₅₀- Lethal Dose 50%;
NOEC - No Observed Effect Concentration;
PBT - Persistent, bioaccumulative and toxic;
UN - United Nations;
vPvB - Very Persistent and very Bioaccumulative.

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, 2026.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.