

## SAFETY DATA SHEET

**Product:** JIMO Lava Louça Pastilha

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### 1 - IDENTIFICATION

GHS Product identifier:	JIMO Lava Louça Pastilha
Other means of identification:	91361
Recommended use of the chemical:	Dishwashing detergent for automatic machines.
Specific restrictions on use:	There are not known restrictions on use.
Supplier's details:	Jimo Química Industrial Ltda. <b>Address:</b> Rua Ítalo Raffo 693 - Distrito Industrial, CEP: 94930-240 - RS - Brasil. <b>Phone number:</b> +55 51 3470 67 55 <b>E-mail:</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:	Acute Toxicity - Oral - Category 5; Acute Toxicity - Dermal - Category 5; Skin Corrosion/Irritation - Category 3; Serious eye damage/eye irritation - Category 2A; Reproductive Toxicity - Category 1B.
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. H319 Causes serious eye irritation. H360 May damage fertility or the unborn child.
Precautionary statement(s):	<b>PREVENTION:</b> P203 Obtain, read and follow all safety instructions before use. P264 + P265 Wash hands thoroughly after handling. Do not touch eyes. P280 Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.  <b>RESPONSE TO EMERGENCY:</b> P301 + P317 IF SWALLOWED: Get medical help. P302 + P317 IF ON SKIN: Get medical help. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P318 IF exposed or concerned, get medical advice.

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P332 + P317 If skin irritation occurs: Get medical help.  
P337 + P317 If eye irritation persists: Get medical help.

**STORAGE:**

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:

Product identifier	CAS/EC	Concentration range (%)
Sodium carbonate	497-19-8	60 - 70
Sodium perborate tetrahydrate	10486-00-7 234-390-0	5 - 10
Subtilisin	9014-01-1	0.1 - 1
Sodium metasilicate	10213-79-3	0.1 - 1
Alpha-amylase <sup>1</sup>	9000-90-2	0.1 - 1

<sup>1</sup> The ingredient does not contribute to the hazard, but is classified as a sensitizer.

### 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 mild skin irritation with redness and dryness. Causes serious eye irritation with redness and pain. 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.

### 5 - FIRE-FIGHTING MEASURES

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

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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.

### 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.
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.

### 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. Avoid exposure to the product, 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:	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. 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

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Occupational exposure limit: The values below apply to workplaces.

- Subtilisin:  
ACGIH - TLV - Ceiling: 0.00006 mg/m<sup>3</sup>.

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 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: Solid, in tablet.

Color: White with blue dots.

Odour: Not available.

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 applicable.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

pH: 10.5 to 11.49 (( 1%)).

Kinematic viscosity: Not available.

Solubility(ies): Soluble in water.

Partition coefficient n-octanol/water (log value): Not available.

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Vapour pressure: Not available.

Relative vapour density: Not available.

Density and/or relative density: Not available.

Particle characteristics: Not available.

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: High temperatures. Contact with incompatible materials.

Incompatible material: Alkaline earth metals, alkaline metals, non metallic oxides, oxidizing agents, phosphorus oxides, salts of heavy metals, Strong acids, strong base, strong oxidizing agents and strong reducing agents.

Hazardous decomposition products: No dangerous decomposition products are known.

### 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 Dusts and mists (4h): > 5 mg/L.  
ATEmix Oral: 3359,328 mg/kg.  
ATEmix Dermal: 2883,922 mg/kg.

Information regarding to:

- Sodium carbonate:  
LD<sub>50</sub> Oral (rats): 2800 mg/kg.  
LD<sub>50</sub> Dermal (rabbits): 2000 mg/kg  
- Sodium perborate tetrahydrate:  
LD<sub>50</sub> Oral (rats): 1200 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.

Respiratory or skin sensitization: It is not expected to present respiratory or skin sensitization.

The ingredients Alpha-amylase and Subtilisin, classified as respiratory sensitisers - category 1, are in concentrations < 1% and do not contribute to this classification of the product.

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:	May damage fertility or the unborn child.
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

Ecotoxicity:	It is not expected to be ecotoxic.
Persistence and degradability:	It has no persistence and is considered rapidly degradable. Biodegradability: 92.10%. OECD Method 301.
Bioaccumulative potential:	Presents low bioaccumulative potencial in aquatic organisms.
Mobility in soil:	Not determined.
Other adverse effects:	Due to the basic nature of the product, it can cause changes in environmental compartments, causing damage to organisms.

### 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

<b>Road:</b>	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.
<b>Railway regulations:</b>	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.
<b>Sea:</b>	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.
<b>Air:</b>	IATA - International Air Transport Association: • DGR - Dangerous Goods Regulation.
UN number:	Not classified as dangerous for air transport.

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

**Special precautions for user:** Not applicable.

**Maritime 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.

### 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
09	11/13/2024	Change in section: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 16.

#### Abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;  
ATEmix - Acute Toxicity Estimate of the mixture;  
CAS - Chemical Abstracts Service;  
Ceiling - The concentration that should not be exceeded during any part of the working exposure;  
EC - European Community;  
EEC - European Economic Community;  
LD<sub>50</sub>- Lethal Dose 50%;  
OECD - Organization for Economic Cooperation and Development;  
TLV - Threshold Limit Value;  
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, 2024.

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

Desde 1956



SDS

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

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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 in: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2008:353:0001:1355:en:PDF>. Access at: Nov. 2024.