

Produto: Stanlux Paste 270/70 IPA

Versão: 01

Data: 2025/01/28

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1. IDENTIFICATION

Product identifier: Aluminium paste

Other means of identification: Stanlux Paste

Recommended use of the chemical: Printing paints

Specific restrictions on use: There are not known restrictions on use

Supplier`s details:

Manufacturer: Aldoro Indústria de Pós e Pigmentos Metálicos Ltda
Av. Suécia, 570 – Distrito Industrial – Rio Claro – SP – Brasil
Tel: +55 19 3535.6400
www.aldoro.com.br

Emergency phone number: Tel: +55 19 3535.6400

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Flammable solid	category 1
Serious eye damage/eye irritation	category 2A
Specific organ toxicity – single exposure	category 3

Classification system adopted:

Norma ABNT-NBR 14725. 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)

H228 Flammable solid.
H319 Cause serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s):

PREVENTION

P210 Keep far from heat/sparks/flames/hot surfaces. Do not smoke.
P240 Connect the container and the receiving container to ground, while the transfer of the product.
P261 Avoid inhaling dusts, smokes, gases, mists, vapors and aerosols.
P273 Avoid release to the environment.
P280 Use protection gloves, protection clothes, eye protection and face protection equipment.

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RESPONSE TO EMERGENCY

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.

P370 + P378 In case of fire: For firefighting use carbon dioxide, chemical power or sand. Never use water.

Other hazards which do not result in classification: The material may liberate vapors that form rapidly flammable mixtures. The building up of vapors may light up and/or explode in case of ignition. When in contact with water it may liberate hydrogen gas, which is highly flammable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Common chemical name	CAS Number	Concentration range (%)
Aluminium powder	7429-90-5	68 - 72
Isopropanol	67-63-0	28 - 32

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation: Remove the victim to a well-ventilated area and keep at rest in a position that does not impede breathing. If you feel unwell, contact a doctor.

Skin contact: Take the contaminated clothes off. Wash the skin with plenty of water and soap. In case of skin irritation: See a doctor.

Eye contact: Rinse carefully with water for several minutes. If you wear contact lenses, remove them if that's easy. Keep rinsing. If eye irritation persists: consult a doctor.

Ingestion: Do not induce vomiting. Look for a medical help.

Most important symptoms and effects, both acute and delayed: Inhalation of isopropanol can cause dizziness, tiredness, nausea and headache.

Indication of immediate medical attention and special treatment needed, if necessary: No further relevant information available.

5. FIREFIGHTING MEASURES

Extinguishing media

Meios de extinção apropriados: Carbon dioxide, chemical powder or dry sand. Use initially carbon dioxide or chemical powder. If aluminium particles (pyrophoric metal) ignite, sand should be used to cover the product surface. The burnt material should only be removed after completely cool.

Unsuitable extinguishing agents: Do not use water or foam.

Specific hazards arising from the mixture: The material may release vapors that readily form flammable mixtures. Accumulated vapors may ignite and/or explode in the presence of an ignition source.

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Special protective measures for firefighting personnel: We recommend the use of respiratory protection equipment of the autonomous type, with positive pressure and full protection clothes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Use individual protection equipment. Move away the persons from the affected area. Eliminate fire and explosion risks removing or deactivating possible sources of ignition.

For emergency responders:

Use complete PPE, with protective eyewear, protective gloves, safety shoes and suitable protective clothing.

Environmental precautions:

Do not allow the product to reach the sewer system or any water streams. Inform the authorities if the product reaches water resources.

Methods and materials for containment and cleaning up:

Cover the product with inert and absorbing material (sand or sawdust) and remove to a dry container. Do not use water or other aqueous products. See section 13 for waste treatment methods.

7. HANDLING AND STORAGE

Precautions for safe handling

Precautions for safe handling:

Handle in a covered, dry and ventilated place. It may be necessary mechanical ventilation and local exhaust. Keep the containers closed when the product is not being used. Avoid inhaling product vapors. Use individual protection equipment as described in Section 8.

General hygiene:

Avoid skin, eye and clothes contact. Do not eat, drink or smoke in work areas. Wash your hands after handling and before eating, drinking, smoking or using the restroom.

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 container tightly closed. Ground container and product receiver during transfers. Use only non-sparking tools. Avoid the build-up of electrostatic charges. Use explosion-proof electrical, ventilation and lighting equipment.

Conditions for safe storage, including any incompatibilities:

Store in a covered, ventilated place protected from heat. Keep away from incompatible materials as described in Section 10.

Packaging compatibilities:

Similar to the original packaging.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters:****Occupational exposure limit:**DNEL long-term, worker, for aluminium metal powder/dust is 3,72 mg aluminium/m³.

PNEC-values from 46-17800 µg/l depending on water chemistry.

DNEL isopropanol. Worker long term dermal 888 mg/kg bodyweight/day. Worker long term inhalation 500 mg/m³.

PNEC isopropanol. Fresh water and sea water 140,9 mg/l.

Occupational exposure limits (limit value - eight hours):

	Aluminium powder (stabilized)	Isopropanol
Austria	10 mg/m ³	200 ppm
Canada - Québec	10 mg/m ³	200 ppm
Denmark	5 mg/m ³ (inhalable aerosol)	
	2 mg/m ³ (respirable)	200 ppm
Finland		200 ppm
France	10 mg/m ³ (inhalable aerosol)	200 ppm
	5 mg/m ³ (respirable aerosol)	
Germany	4 mg/m ³ (inhalable aerosol)	
	1,5 mg/m ³ (respirable aerosol)	200 ppm
Hungary	6 mg/m ³ (respirable aerosol)	
Spain	5 mg/m ³ (respirable aerosol)	200 ppm
	10 mg/m ³ (inhalable aerosol)	
United Kingdom	4 mg/m ³ (respirable aerosol)	400 ppm
	10 mg/m ³ (inhalable aerosol)	

Appropriate engineering controls: Use explosion proof mechanical ventilation and exhaustion systems, to maintain the atmospheric concentrations of the constituents of the product, below the occupational exposure limits.**Measures of personal protection****Eye/face protection:** Protective goggles if there is a risk of splashing.**Skin protection:** Impermeable gloves. Recommended gloves: nitrile..**Respiratory protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Use respiratory protection that meets the requirements of EN 141. Recommended filter type: A or combination filter A-P2.**Thermal hazards:** Not applicable under normal use conditions.

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9. EXPOSURE CONTROLS / PERSONAL PROTECTION

* Refer to isopropanol

Physical state	Paste solid
Color	Gray
Odour	* Alcoholic
Melting point/freezing point:	* -89 °C
Boiling point or initial boiling point and boiling range:	* 82 °C
Flammability	Flammable solid
Lower and upper Explosion limit/flammability limit:	* 2-13 %
Flash point	* 12 °C
Auto-ignition temperature	* > 350 °C
Decomposition temperature	* Not available
pH	Not applicable
Kinematic viscosity	Not applicable
Solubility	Soluble in water
Partition coefficient octanol/water (log value)	* 0,05
Vapour pressure	* 45,4 mmHg (6052,8188 Pa) a 25 °C
Density and/or relative density:	0,8-1,2 (aparente)
Relative vapour density	* 2,1 (ar = 1)
Particle characteristics	Aluminium paste containing aluminium powder with average diameter between 11 micrometers. Measuring instrument Malvern.

10. STABILITY AND REACTIVITY**Reactivity**

Non-reactive under normal conditions of use, storage and transport.

Chemical stability

Stable under normal conditions of temperature and pressure.

Possibility of hazardous reactions

When in contact with water, acids, alkali it may liberate hydrogen gas, which is highly flammable.

Conditions to avoid

Keep away from sources of ignition and incompatible materials.

Hazardous decomposition products

Acids, alkali, oxidizing agents and water.

Dangerous products from the decomposition

Does not decompose at room temperature.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Product not classified as acute toxic. Aluminium powder: Oral LD50 (rat) > 2000 mg/kg bw. Inhalation LC50 (rat) > 888 mg/m3. Inhalation NOAEC (rat) = 10 mg/m3. Isopropanol: LD50 oral (rat): 5840 mg/kg (OECD TG 401). Inhalation LC50 (rat 6 h): > 25 mg/l (OECD TG 403). LD50 dermal (rabbit): 13900 mg/kg (OECD TG 402).
Skin corrosion/irritation:	Based on available data the classification criteria are not met.
Serious eye injuries/eye irritation:	Causes severe eye irritation with redness and pain.
Respiratory or skin sensitization:	Based on available data the classification criteria are not met.
Germ cell mutagenicity:	Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive toxicity:	Based on available data the classification criteria are not met.
STOT – Single exposure:	Based on available data the classification criteria are not met.
STOT – Repeated exposure:	Based on available data the classification criteria are not met.
Aspiration hazard:	Based on available data the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product aluminium paste in isopropanol is not classified as dangerous for the environment.

Aluminium powder and isopropanol is not classified as dangerous for the environment.

Isopropanol

LC50 Fish 96h: 9640 mg/l (Pimephales promelas).

LC50 Daphnia magna 24 h: > 9714 mg/l

EC50 algiers 72 h: > 100 mg/l (Scenedesmus subspicatus)

Persistence and degradability

Isopropanol is readily biodegradable.

Bioaccumulative potential

Isopropanol is not assessed as biaccumulative.

Mobility in soil

Aluminium paste is a solid material and is not expected to penetrate into the soil.

Other adverse effects

No additional information available.

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13. DISPOSAL CONSIDERATIONS**Waste treatment methods:**

Product and product waste are classified as hazardous and must be disposed of in accordance with federal, state and municipal laws.

Contaminated packaging: The packaging material should not be reused. When decontaminated, it may be destined to recycling.

14. TRANSPORT INFORMATION

	ADR/RID	IATA	IMDG
UN number	1325	1325	1325
Proper shipping name	FLAMMABLE SOLID, ORGANIC, N.O.S. (isopropanol and aluminium powder)		
Primary risk class or division	4.1	4.1	4.1
Número de risco	40	40	40
Packing group	II	II	II
EmS Number	-	-	F-A, S-G
Tunnel category	E		
Environmental hazards	-	-	No

15. REGULATORY INFORMATION

Decreto Federal nº 2.657, de 3 de julho de 1998 (Promulga a Convenção nº 170 da OIT, relativa à Segurança na Utilização de Produtos Químicos no Trabalho).

Lei nº 12.305, de 02 de agosto de 2010 (Institui a Política Nacional de Resíduos Sólidos).

Decreto nº 7.404, de 23 de dezembro de 2010 (Regulamenta a Lei nº 12.305, de 2 de agosto de 2010).

Portaria nº 229, de 24 de maio de 2011 – Altera a Norma Regulamentadora nº 26.

16. OTHER INFORMATION

This SDS 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
01	2025/01/28	Elaboration

Abbreviations:

ADR - European Agreement concerning the international carriage of dangerous goods by road;

CAS - Chemical Abstracts Service;

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DNEL - Derived NO-Effect Level;

IATA - International Air Transport Association;

IMDG - International Maritime Dangerous Goods Code (Código Marítimo Internacional de Produtos Perigosos);

LC - Lethal Concentration

LD - Lethal Dose

NOAEC - No Observed Adverse Effect Level;

PNEC - Predicted No-Effect Concentration.

RID - Règlement concernant le transport international ferroviaire de marchandises dangereuses.

UN - United Nations;

TLV - Threshold Limit Value;

TWA - Time Weighted Average .

Bibliographic referencesGESTIS - SUBSTANCE DATABASE. Disponível em: <<https://gestis-database.dguv.de/>>. Acesso em: jan 2024.

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