

Stanlux Paste: 100, 120, 130, 130P, 140, 150, 152, 166, 200, 220, 260, 261, 266, 280, 1100, 1120, 1130, 1200, 1600, 1700, 1750, 1770, 1770/60, 2000.

Stanlux Silver: 2240, R2970, 3201, R3270, 3301, R3360, R3370, 3501, 3571, R3670, 3701, 3707, 3711, R3770, R3870, 3871, 3891, 3895, 3901, 3911, R4100, R4112, R4114, R4200, R4400, R4500, R4600, R4770, R4800, R4850, R6200, R6300, R6320, R6350, R6400, R6403, R6800, SD7100, SD7200, SD7210, SD7220, SD7250, SD7300, SD7350, SD7450, SD7500, SD7600, SD7700, SD7900, SD7904, SD7914.

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1. IDENTIFICATION

Product identification: Aluminum paste

Other ways of identification: Stanlux Paste and Stanlux Silver

Recommended uses of the chemical: Paints

Usage restrictions: There are no known restrictions on use.

Supplier 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 telephone number: Tel: 19 3535.6400

2. HAZARD IDENTIFICATION

Classification of the substance or mixture:

Flammable solid	Category 1
Skin corrosion/irritation	Category 2
Carcinogenicity	Category 2
Specific Target Organ Toxicity – Single Exposure	Category 3
Dangerous to the aquatic environment – Acute	Category 2
Dangerous to the aquatic environment – Chronic	Category 2

Classification system used

Standard ABNT-NBR 14725. Globally Harmonized System for Classification and Labeling of Chemicals, UN.

GHS labeling elements including precautionary statements

Pictograms



Signal word DANGER

Danger phrases

H228 Flammable solid.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 - Suspected of causing cancer.
H411 Toxic to aquatic life with long lasting effects.

SAFETY DATA SHEET

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Precautionary phrases PREVENTION

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P240 Ground the container and receiver during transfers.
P241 Use explosion-proof electrical, ventilation and lighting equipment.
P261 Avoid breathing dust, fumes, gases, mist, vapors and spray.
P264 Wash thoroughly after handling.
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.

EMERGENCY RESPONSE

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353 - IF ON SKIN (or hair):
Immediately remove all contaminated clothing. Rinse skin with water or take a shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P308 + P313 - IF exposed or concerned: Get medical attention.
medical care.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing. Wash before reuse.
P370 + P378 In case of fire: Use carbon dioxide, dry chemical or sand to extinguish.
Never use water.
P391 Collect spilled material.

STORAGE

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

DISPOSITION

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

Other hazards not resulting in a classification: Material may release vapors which readily form flammable mixtures. Accumulation of vapors may ignite and/or explode if ignited. Contact with water may release hydrogen gas which is highly flammable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Mixture

Ingredients that contribute to the danger

Chemical identity	CAS number	Concentration range (%)
Aluminum powder	7429-90-5	58 - 72
Mineral turpentine	64742-47-8	26 - 35
aromatic naphtha	64742-95-6	2 - 7

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4. FIRST AID MEASURES

Description of first aid measures

Inhalation: Remove the victim to a ventilated area and keep him/her at rest in a position that does not hinder breathing. If he/she feels unwell, seek medical help.

Skin contact: Remove contaminated clothing. Wash skin with soap and running water. In case of skin irritation: Consult a physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do so. If eye irritation persists: Consult a physician.

Ingestion: Do not induce vomiting. Seek medical help.

Most important symptoms and effects, acute or delayed: Exposure to vapor concentrations above recommended exposure levels may cause central nervous system depression with headache, nausea, dizziness, mental confusion, loss of consciousness and drowsiness; irritation of the eyes and respiratory tract.

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

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Carbon dioxide, dry chemical powder or dry sand. Initially, use carbon dioxide or dry chemical powder. If the aluminum particles (pyrophoric metal) catch fire, sand should be used to cover the surface of the product. The burned material should only be removed after it has cooled completely.

Unsuitable extinguishing media: Do not use water or foam.

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

Special protective measures for firefighting personnel: The use of self-contained positive pressure respiratory protective equipment and full protective clothing is recommended.

6. CONTROL MEASURES FOR SPILLS OR LEAKS

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Use personal protective equipment. Keep people away from the affected area. Eliminate the risk of fire and explosion by removing or deactivating possible sources of ignition.

For emergency service personnel:

Use full PPE, including safety glasses, protective gloves, safety shoes and appropriate protective clothing.

Environmental precautions:

Do not allow the product to reach sewage pipes or watercourses. Inform the authorities if the product reaches water resources.

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Methods and materials for containment and cleaning:

Cover the product with inert and absorbent material (sand or sawdust) and remove to a suitable, dry container. Do not use water or other aqueous products. For final disposal, proceed as per Section 13 of this document.

7. HANDLING AND STORAGE

Appropriate technical measures for handling

Precautions for safe handling:

Handle in a covered, dry and ventilated place. Mechanical ventilation and local exhaust may be necessary. Keep packaging closed when the product is not in use. Avoid inhaling product vapors. Use personal protective equipment as described in Section 8.

Installations and equipment must be grounded to prevent static charge build-up. All electrical equipment used must be explosion-proof.

Hygiene measures:

Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke in work areas. Wash hands after handling and before eating, drinking, smoking or using the bathroom.

Conditions for safe storage, including any incompatibilities

Technical measures for fire and explosion prevention:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. 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.

Suitable packaging materials:

Similar to original packaging.

Unsuitable packaging materials:

Non-conductive materials.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters

Occupational exposure limit:

Chemical Agent	Exposure Limits
Aluminum	ACGIH TLV (United States, 1/2023) TWA: 1 mg/m3 (Respirable fraction)
Mineral Turpentine	

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Solvent naphtha (petroleum), light aromatic	
pseudocumene(1,2,4-trimethylbenzene)	ACGIH TLV (United States, 1/2023) TWA: 10 ppm 8 hours.
xylenes	Ministry of Labor and Employment (Brazil, 11/2001) [Xylene] LT: 78 ppm 8 hours. LT: 340 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023). [p-xylene and mixtures containing p-xylene] Ototoxic TWA: 20 ppm 8 hours.
cumene	Ministry of Labor and Employment (Brazil, 11/2001) Absorbed through the skin LT: 39 ppm 8 hours. LT: 190 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023) TWA: 5 ppm 8 hours.

Engineering control measures: Use explosion-proof mechanical ventilation and exhaust systems to maintain atmospheric concentrations of product constituents below occupational exposure limits.

Personal protective measures

Eye/face protection: Safety glasses if there is a risk of splashing.

Skin protection: Impervious gloves. Recommended gloves: nitrile.

Respiratory protection: If personal exposure cannot be controlled below applicable limits by ventilation, use a respirator suitable for organic vapors/particulates, in accordance with the Respiratory Protection Program (PPR), Fundacentro.

Thermal hazards: No thermal hazards.

9. PHYSICAL AND CHEMICAL PROPERTIES

* Refers to mineral spirits (MS) and aromatic naphtha (HA)

Physical state	Pasty solid
Color	Gray
Odor	Characteristic
Melting point/freezing point	* MS -20°C HA -63°C
Boiling point or initial boiling point and boiling range	* MS Not available HA 160 to 171°C
Flammability	Flammable Solid
Lower and upper explosive/flammability limits	* MS 0.9-6.0% HA 0.8-7.0%
Flash point	* MS 38°C HA 42°C
Autoignition temperature	* MS 220°C HA 483°C

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Decomposition temperature	* Not available
pH	Not applicable
Kinematic viscosity	Not available
Solubility	Insoluble in water
Partition coefficient – n-octanol/water (log value)	* MS Log kow: 6.23 HA <4
Vapor pressure	* MS < 52 mmHg at 37.8°C HA 2.25 mm Hg at 20°C
Density and/or relative density	0.8-1.2 (apparent)
Relative vapor density	* MS 4.5 (air=1) HA 4.2 (air=1)
Particle characteristics	Aluminum particles with a size of 5 to 50 microns. Malvern measuring instrument.

10. STABILITY AND REACTIVITY

Reactivity

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

Chemical stability

Stable under normal temperature and pressure conditions.

Possibility of dangerous reactions

In contact with water, alkalis and acids it releases hydrogen gas which is highly flammable.

Conditions to avoid

Keep away from sources of ignition and incompatible materials.

Incompatible materials

Acids, alkalis, oxidizing agents and water.

Hazardous decomposition products

Does not decompose at room temperature.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Based on the available data, the classification criteria are not met.

Aluminum powder: Oral LD₅₀ (rat): > 2000 mg/kg

Inhalation LC₅₀ (rat): > 888 mg/m³

Inhalation NOAEC (rat): 10 mg/m³

Aromatic naphtha : Oral LD₅₀ (rat): 3492 mg/kg

Dermal LD₅₀ (rabbit): >3160 mg/kg

Inhalation LC₅₀ (rat): >6193 mg/m³ 4 hours

Skin corrosion/irritation:

It causes skin irritation with redness, dryness and pain.

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	Mineral Turpentine: Study carried out on rabbits showed irritation to the skin of treated animals. Aromatic naphtha: Data available. Based on test data for material. Test(s) equivalent or similar to OECD Guideline 404
Serious eye damage/eye irritation:	May cause mild, short-lived eye discomfort. Aromatic naphtha: Data available. Based on test data for material. Test(s) equivalent or similar to OECD Guideline 405
Respiratory or skin sensitization:	The product is not expected to cause skin and respiratory sensitization.
Germ cell mutagenicity:	The product is not expected to be a mutagen. Aromatic naphtha: Data available. Based on test data for material. Test(s) equivalent or similar to OECD Guideline 471 473 475 476 479
Carcinogenicity:	It can cause cancer. Aromatic naphtha: There is no endpoint data for the material. Based on component evaluation. Cumene (CAS 98-82-8): IARC (International Agency for Research on Cancer) Group: 2B - Possibly carcinogenic to humans. National Toxicity Program (NTP) Status: Reasonable expectation of being a carcinogen for Human Beings. Xylene (1330-20-7): IARC (International Agency for Research on Cancer) Group: 3 - Not classifiable.
Reproductive toxicity:	The product is not expected to be reproductively toxic.
Specific target organ toxicity – single exposure:	It can cause irritation of the respiratory tract and depression of the central nervous system with headache, nausea, dizziness, mental confusion and loss of consciousness and drowsiness. Mineral turpentine and aromatic naphtha: There is no endpoint data for the material. Based on component evaluation.
Specific target organ toxicity – repeated exposure:	The product is not expected to exhibit specific target organ toxicity through repeated exposure.
Aspiration hazard:	Based on the available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms, with long-lasting effects.

Mineral Turpentine: EC₅₀ (Pseudokirchneriella subcapitata, 96h): 3.7 mg/L
 EC₅₀ (Daphnia magna, 48h): 1.4 mg/L
 LC₅₀ (Oncorhynchus mykiss, 96h): 2.0 – 5.0 mg/L

Aromatic naphtha: LE₅₀ (Daphnia magna, 48h): 3.2 mg/L
 LER₅₀ (Pseudokirchneriella subcapitata, 72 hours): 2.9 mg/L
 LL₅₀ (Oncorhynchus mykiss, 96h): 9.2 mg/L

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Persistence and degradability

The product is persistent and is not considered readily biodegradable based on ingredient information.

Bioaccumulative potential

No bioaccumulative potential is expected in aquatic organisms.

Mobility in soil

The product is not expected to be mobile in soil.

Other adverse effects

No other additional information available.

13. CONSIDERATIONS ON FINAL DESTINATION

Recommended methods for final disposal:

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

Contaminated packaging: The packaging should not be reused. Once decontaminated, it can be recycled.

14. TRANSPORTATION INFORMATION

National and international regulations

	ADR/RID	IATA	IMDG
UN number	1325	1325	1325
Proper name for boarding	FLAMMABLE SOLID, ORGANIC, N.O.S. (aluminum powder and petroleum hydrocarbon)		
Risk subclass	4.1	4.1	4.1
Risk number	40	40	40
Packing group	II	II	II
EmS Number	-	-	FA, SG
Environmental hazard	-	Yes	Yes

15. REGULATORY INFORMATION

Federal Decree No. 10,088, of November 5, 2019.

Regulatory Standard No. 26 (Safety Signage and Identification), approved by MTP Ordinance No. 2,770 of September 5, 2022 of the Ministry of Labor and Social Security.

16. OTHER INFORMATION

Important information, but not specifically described in the previous sections

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This document was prepared based on current knowledge about the appropriate handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product that involves its combination with other materials, as well as forms of use other than those indicated, are the responsibility of the user. It is warned that the handling of any chemical substance requires prior knowledge of its dangers by the user. In the workplace, it is the responsibility of the company using the product to promote the training of its employees and contractors regarding the possible risks arising from exposure to the chemical product.

Change control:

Version	Date of preparation	Changes
01	2025/06/12	Preparation

Subtitles and abbreviations:

ACGIH - American Conference of Governmental Industrial Hygienists;

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

CAS - Chemical Abstracts Service (Registration number with the American Chemical Society);

EC₅₀ - Effective concentration of the substance for 50% of individuals;

LC₅₀ - Effective concentration or lethal concentration of the substance for 50% of individuals;

LD₅₀ - Dose capable of causing the death of 50% of animals;

IATA - International Air Transport Association;

IMDG - International Maritime Dangerous Goods Code;

LE₅₀ - Lethal Effect 50% (Concentration of a substance that causes fatal effects in 50% of the tested population);

LEr₅₀ - Lethal Effect related to reproduction 50% (Lethal Concentration for 50% reproductive reduction of a tested population);

LL₅₀ - LL50 Lethal Loading 50% (Lethal Load of the substance capable of causing the death of 50% of the organisms tested);

LT - Tolerance Limit;

NOAEC - No Observed Adverse Effect Level;

UN - United Nations;

TLV - Threshold Limit Value;

TWA - Time Weighted Average.

References:

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL 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.

BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE). Regulatory Standard (NR) No. 15: Unhealthy activities and operations. Brasília, DF. Apr. 2022.

BRAZIL. MINISTRY OF LABOR AND EMPLOYMENT (MTE). Regulatory Standard (NR) No. 7: Occupational health medical control program. Brasília, DF. Jan. 2022.

GESTIS - SUBSTANCE DATABASE. Available at: <<https://gestis-database.dguv.de/>>. Accessed: Jun 2025.

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