

Stanlux Copper: 2000, 2700, 2800, 4500, 4600, 7500, 12000

Stanlux Pale Gold: 2000, 2700, 2800, 3500, 4500, 6500, 7500, 12000, 13000, 14000

Stanlux Rich Pale Gold: 2000, 2700, 2800, 3500, 4500, 6500, 7500, 12000, 13000, 14000

Stanlux Rich Gold: 2000, 2700, 2800, 3500, 4500, 6500, 7500, 12000, 13000, 14000

Stanlux Ducate Gold: 4500

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the product

Bronze powder (Stanlux Copper and Stanlux Gold - Pale, Rich Pale, Rich and Ducate Gold)

1.2 Main recommended uses

Decorative paints, printing inks, textile finish and masterbatch

1.3 Company's identification

Manufacturer: Aldoro Indústria de Pós e Pigmentos Metálicos Ltda.
Av. Suécia, 570 – Distrito Industrial – Rio Claro – SP – BRAZIL
Phone: 19 3535.6400
Fax: 19 3527.0330
E-mail: aldoro@aldoro.com.br

1.4 Emergency Phone

Tel: 19 3535.6400

2. HAZARDS IDENTIFICATION

2.1 Classification of the mixture, following the ABNT NBR 14725-2:2019 standard.

Not classified as dangerous

2.2 Labeling elements, as per the GHS

Hazard pictograms Not applicable

Signal word Not applicable

Hazard Statements Not applicable

Precautionary statements P261 Avoid inhaling dusts, smokes, gases, mists, vapors and aerosols.
P280 Use protection gloves, protection clothes, eye protection and face protection equipment.
P370 + P378 In case of fire: For firefighting use carbon dioxide, chemical power or sand. Never use water.
P403 + P233 Keep in a well-ventilated place. Keep the container well closed.
P501 Dispose the content and the container in a duly regulated and licensed place, as per the Federal, State and Municipal Legislations.

2.3 Other hazards

There is no other important information available.

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3. COMPOSITION AND INFORMATION ON THE INGREDIENTS

3.1 Characterization of the product

Mixture

3.2 Ingredients

Common, technical chemical name	CAS Number	Concentration range (%)
Metallic alloy	Copper	7440-50-8
	Zinc	7440-66-6
	Aluminium	7429-90-5

4. FIRST AID MEASURES

4.1 Description of the first aid actions

Inhalation: Remove the victim from the contaminated area. In case of respiratory arrest, administer artificial respiration. Provide medical attention.

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

Contact with the eyes: Wash immediately with current water for 15 minutes (at least). See a doctor if the irritation persists.

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

4.2 Most important, serious or late effects and symptoms: In case of inhalation of big quantities of powder urgent symptoms of influenza are possible ("Zinc fever") which disappears after 24-48 h.

4.3 Indications on urgent medical care and necessary special treatments: No other relevant information available.

5. FIRE FIGHTING MEASURES

5.1 Fire extinguishing means

Most suitable fire extinguishing means: Use special chemical powder or dry sand to cover the surface of the product. The burnt material should only be removed after completely cool.

Not appropriate fire extinguishing means: Do not use water, foam or carbon dioxide.

5.2 Specific dangers of the mixture: Lasting contact with water may liberate flammable gases (hydrogen).

5.3 Protection means of the fire fighting team: We recommend the use of respiratory protection equipment of the autonomous type, with positive pressure and full protection clothes.

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6. CONTROL MEASURES FOR SPILLING OR LEAKING

6.1 Personnel precautions, protection equipment and emergency procedures.

Use individual protection equipment. Move away the persons from the affected area.

6.2 Environment precautions

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

6.3 Methods and materials for containment and cleaning

Remove to a dry container. Do not use water or other aqueous products. The residues shall be disposed as per the federal, state or local regulations.

6.4 References to other sections

See Section 7 for information on the safe handling. See Section 8 for information on individual protection equipment. See Section 13 for information on the disposal.

7. HANDLING AND STORAGE

7.1 Precautions for a 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 exposure to product dust. Use individual protection equipment as described in Section 8.

Avoid skin, eye and clothes contact. Wash your hands after handling and before eating, drinking, smoking or using the restroom.

7.2 Safe storage conditions, including any incompatibility

Store in a covered, dry and ventilated place. This product may react dangerously with incompatible materials, as described in Section 10.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Control parameters:

Limits of occupational exposure:

Chemical Agent	LT NR 15 – Annex 11		TWA (ACGIH)	
	ppm	mg/m ³	ppm	mg/m ³
Copper				1 (*)
Zinc (oxide)				2 (*)
Aluminium				1 (*)

(*) breathable dust

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8.2 Measures for engineering control: Use mechanical ventilation and exhaustion systems, to maintain the atmospheric concentrations of the constituents of the product, below the occupational exposure limits.

General measures of hygiene and protection: Avoid contact with skin, eyes and clothes. Use good hygiene practices. Wash your hands before coffee breaks and at the end of the day, and before eating, drinking, smoking or when using the rest room. Keep the emergency eye washing equipment and shower close to the working area.

8.3 Measures of personal protection: The selection of individual protection equipment changes in accordance to the exposure conditions and to the application, handling, concentration and ventilation practices. Data on the selection of protection equipment when using this material are supplied below, and are based on the normal use thereof.

Eye protection: Safety goggles with lateral protection.

Skin and body protection: Waterproof gloves or protection creams.

Respiratory protection: Mask with filter to protect against dusts.

Thermal hazards: Not applicable under normal use conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Data on the basic physical and chemical properties.

Physical state	Granulated solid
Color	Golden
Odor	Characteristic
pH	Not applicable
Melting point (°C)	Not available
Boiling point / range (°C)	Not applicable
Flash point (°C)	Not applicable
Evaporation rate (butyl acetate = 1)	Not applicable
Flammability (solid; gas)	Not applicable
Lower/upper limit of explosiveness (%)	Not applicable
Vapor pressure (kPa at 38°C)	Not applicable
Vapor density (air=1)	Not applicable
Density	0,6-1,2 (apparent)
Solubility in water (% mass)	Insoluble
Partition coefficient – n-octanol/water	Not available
Auto-ignition temperature (°C)	Not available
Decomposition temperature (°C)	Not available
Viscosity	Not applicable

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10. STABILITY AND REACTIVITY

10.1 Reactivity

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

10.2 Chemical stability

Stable under normal conditions of temperature and pressure.

10.3 Possibility of dangerous reactions

When in prolonged contact with water may liberate hydrogen gas, which is highly flammable.

10.4 Conditions to be avoided

Keep away from incompatible substances.

10.5 Incompatible materials

Acids, alkali, oxidizing agents and water.

10.6 Dangerous products derived from the decomposition

Does not decompose at room temperature.

11. TOXICOLOGICAL INFORMATION

Data relative to the product, based upon the classification of its ingredients.

Acute toxicity: Not classified as acute toxic.

Skin corrosion/irritation: Not classified as corrosive or irritant to the skin.

Serious eye injuries/eye irritation: Not classified as eye irritant.

Respiratory or skin sensitization: Not classified as sensitizer by inhalation or by skin contact.

Mutagenicity in germination cells: Not classified as mutagenic.

Carcinogenicity: Not classified as carcinogenic.

Toxicity to reproduction: Not classified as toxic to reproduction.

Toxicity for specific organs-targets – single exposure: In case of inhalation of big quantities of powder urgent symptoms of influenza are possible ("Zinc fever") which disappears after 24-48 h.

Toxicity for specific organs-targets – repeated exposure: Not classified as toxic for the specific organ-target – repeated exposure.

Aspiration danger: No danger is expected by aspiration.

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12. ECOLOGICAL INFORMATION

The data supplied are based upon the data of the material ingredients.

12.1 Ecotoxicity

Product not classified as dangerous to environment.

12.2 Persistence and degradability

It is expected that the product shows persistence and is slowly degraded.

12.3 Bioaccumulation potential

The product should not show any bioaccumulation potential.

12.4 Mobility in the soil:

The product should show low mobility, for being a powder solid material.

12.5 Other adverse effects:

No other relevant information available.

13. CONSIDERATIONS ON THE FINAL DISPOSAL

13.1 Recommended methods for the final disposal:

Residues should be disposed for proper treatment, following its characteristics (such as, coprocessing and incineration) and following the present applicable laws and regulations. Do not dispose in the sewer system, in rivers, lakes and water sources.

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

14. TRANSPORT INFORMATION

Not classified as dangerous for transportation.

15. REGULATORY INFORMATION

Federal Decree Nr. 2.657, of July 3rd, 1998 (Promulgates the Nr. 170 OIT Convention, relative to Safety in the Use of Chemical Products at Work).

Law Nr. 12.305, of August 2nd, 2010 (Establishes the National Policy for Solid Wastes).

Decree Nr. 7.404, of December 23rd, 2010 (Regulates Law Nr. 12.305, of August 2nd, 2010).

Ministerial Decree Nr. 229, of May de 24th, 2011 – Amends the Nr. 26 Regulating Standard.



Material Safety Data Sheet



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16. OTHER INFORMATION

This MSDS was written based upon the data of our suppliers of raw-materials and upon the present knowledge on the proper handling of the product under normal use conditions, following the application mentioned in section 1. Any other form of use of the product that involves its combination with other materials, besides forms of use different from the mentioned ones will be the responsibility of the user. We hereby warn that the handling of any chemical substance requires the previous knowledge of its danger by the user. The user company is responsible to provide, at the work place, the training of its employees and other persons in respect to the possible risks derived from the exposure to the chemical product.

Captions and acronyms:

ACGIH – American Conference of Governmental Industrial Hygienists.

CAS – Chemical Abstracts Service.

GHS – Globally Harmonized System of Classification and Labelling of Chemicals.

LT – Limite de Tolerância (Tolerance Limit) - Brazilian regulations.

NR – Norma Regulamentadora (Regulating Standard) - Brazilian regulations.

TWA – Time Weighted Average.