

Material Safety Data Sheets

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Section 1 – Product Information

Alumilite's Bronze, Copper and Gold Metallic Powder

Common Chemical Name: Brass Flaked Metal
Synonyms: N/A
Chemical Family: N/A
Molecular Weight: Not Established

Section 2 - Ingredients

Components	CAS #	OSHA PEL (TWA)	ACGIH TLV (TWA)	Other Limits Recommended	Percent by weight
Hazardous					
Copper	7440-50-8	1 mg/m ³ (as dust)	1 mg/m ³ (as dust)	N/A	69 - 99
Zinc	7440-66-6	15 mg/m ³ (total dust)	10 mg/m ³ (total dust)	N/A	0 - 30
Aluminum	7429-90-5	15 mg/m ³ (total dust)	10 mg/m ³ (total dust)	5 mg/m ³ OSHA (respirable fraction)	0 - 1
Stearic acid	57-11-4	N/E	N/E	N/A	0 - 4
Silica	7631-86-9	0.8 mg/m ³ (as dust)	No Information	N/A	0 - 4

Section 3- Hazardous Identification

Potential Health Effects

Eye Contact: May cause irritation.

Skin Contact: May cause irritation or dermatitis.

Inhalation: May irritate mucous membranes and pharynx.

Ingestion: May cause vomiting and collapse. Acute poisoning is characterized by hemolysis, jaundice, anuria, hypotension, and convulsions. Chronic ingestion of copper increases the risk of Wilson's disease. May cause copper to accumulate in the liver.

Primary Entry Routes: Eye, skin, inhalation.

Pre-Existing Medical Conditions Aggravated: Disorders or diseases of the skin, eye, liver, kidney, respiratory and/or pulmonary system.

Carcinogenicity: IARC: No NTP: No OSHA: No

Known California Proposition 65 Chemical: None.

Section 4 – First Aid

Eye Contact: Flush thoroughly with water for at least **15 minutes**. If irritation persists, obtain medical assistance.

Skin Contact: Wash contacted areas with soap and water.

Inhalation: Move to fresh air. If necessary, administer artificial respiration. Obtain medical assistance.

Ingestion: Do not induce vomiting. Get medical attention.

Section 5 – Fire Fighting Measures

Flashpoint (°F) & Method: N/A

Flammable Limits: LEL: N/A UEL: N/A

General Hazard: Metal powder dust in air can be explosive. These products with particle size smaller than 30 µm are classified as flammable, those above 30 µm are not. See the product lists above for specific product designation.

Extinguishing Media: Carbon dioxide, dry powder, foam.

Fire Fighting: Use SCBA. Use water spray to cool containers.

Decomposition Products Under Fire Conditions: Oxides of copper and zinc.

Section 6 – Accidental Release Measures

Collect for disposal with shovel, dustpan or other convenient means. Avoid forming dust cloud. Put in drum or other container.

Section 7 – Handling and Storage

Store in closed containers. Avoid generation of dust clouds.

Section 8 – Exposure Controls & Personal Protection

Exposure Controls: Local exhaust ventilation to keep concentrations below exposure limits.

Personal Protection: Impervious gloves and goggles recommended.

Other: Wash hands with soap and water before eating, drinking, or smoking. Eyewash fountain.

Section 9 – Physical & Chemical Properties

Specific Gravity: 8.5

Vapor Pressure, mmHg, at °F: N/A

Density (Lb./gal): N/A

Melting Point, °F: N/D

Solubility In Water, wt. %: Negligible

Vapor Density (Air = 1): N/A

Evaporation Rate (n-Butyl Acetate = 1): N/A

Boiling Point, °F: N/A

% Volatile (by weight): 0

Section 10 – Stability & Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions to Avoid: N/A

Incompatibility: Strong oxidizing agents. Heat, open flames, sparks.

Hazardous Decomposition: None

Section 11 – Toxicological Information

No applicable data for this section.

Section 12 – Ecological Information

No applicable data for this section.

Section 13 – Disposal Information

Dispose in accordance with local, state, and federal regulations. Contract with authorized disposal service.

Section 14 - Transportation Information

Dot Shipping Description (domestic ground shipping):

NONFLAMMABLE PRODUCTS (see list of Product Names)

Shipping name: N/A (not regulated)

Hazard Class: N/A

UN Number: N/A

Packing Group: N/A

Hazard Label: N/A

FLAMMABLE PRODUCTS (see list of Product Names)

Shipping name: Metal Powders, Flammable, n.o.s.

Hazard Class: 4.1 Flammable Solid

UN Number: UN-3089

Packing Group: II

Hazard Label: Flammable Solid 4.1

Section 15 - Regulatory Information

TSCA: All components are listed in the TSCA Inventory.

OSHA: This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard, 29CFR 1910.1200.

Known California Proposition 65 Chemical: None.

Other: This product(s) contains the following SARA Section 313 Reportable Ingredients: copper, zinc, and aluminum.

Section 16 - Other Information

Hazard Rating Systems: This information is for people trained in National Paint & Coatings Association's (NPCA) Hazardous Materials Identification System (HMIS) and the National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials.

	<u>NONFLAMMABLE PRODUCTS</u>		<u>FLAMMABLE PRODUCTS</u>		<u>KEY</u>
	<u>NPCA-HMIS</u>	<u>NFPA 704</u>	<u>NPCA-HMIS</u>	<u>NFPA 704</u>	
Health	1	1	1	1	4 = Severe
Flammability	0	0	1	1	3 = Serious
Reactivity	0	0	0	0	2 = Moderate
					1 = Slight
					0 = Minimal

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To the best of our knowledge, the information contained herein is accurate. However Alumilite does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although we have described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist. While the descriptions, designs, data, and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by Alumilite hereunder are given gratis and Alumilite assumes no obligation or liability for the description, designs, data, and information given or results obtained, all such being given and accepted at your risk.

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