ALUMILITE

Material Safety Data Sheets

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Section 1 – Product Information

Alumilite's Gun Metal Metallic Powder

Common Chemical Name: Aluminum and Carbon Powder
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					
Aluminum	7429-90-5	15 mg/m^3 (total dust)	10 mg/m^3 (total dust)	5 mg/m^3 OSHA (respirable fraction)	68 - 72
Coal	N/A	2.4 mg/m^3	N/A	N/A	28 – 32
Silica, crystalline	14808-60-7	0.3 mg/m^3 (total dust) 0.1 mg/m^3 (respirable)	0.1 mg/m^3	N/A	<0.3

Section 3- Hazardous Identification

Potential Health Effects

Eye Contact: May cause irritation.
Skin Contact: May cause irritation.
Inhalation: May cause irritation of the respiratory tract. Long term inhalation of coal dust may lead to the development of pneumoconiosis.
Ingestion: May cause irritation to the mouth, throat, and gastro-intestinal tract.

Primary Entry Routes: Eye, skin, inhalation.
Pre-Existing Medical Conditions Aggravated: Upper respiratory and lung diseases, such as emphysema, asthma, and bronchitis.
Carcinogenicity: **IARC:** Crystallina silica – Group 2B, possibly carcinogenic to humans **NTP:** No **OSHA:** No
Known California Proposition 65 Chemical: Crystalline silica (airborne particles).

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. Remove and wash contaminated clothing.
Inhalation: Move to fresh air. If there are symptoms obtain medical assistance.
Ingestion: Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Get medical advice. Treat symptomatically.

Section 5 – Fire Fighting Measures

Flashpoint (°F) & Method: N/A **Flammable Limits:** **LEL:** 30 ounces/1000 cubic feet **UEL:** N/A
Unusual Fire And Explosion Hazards: Closed containers may explode when exposed to extreme heat. Water and finely divided aluminum react violently to form hydrogen gas. Aluminum burns at very high temperatures as a mass. Any

disturbance that might create a dust cloud can result in explosion. Coal powder may burn without being noticed unless it is stirred and sparks are apparent.
Extinguishing Media: Class D dry chemical, sand, or regular protein foam or AFFF. DO NOT use a water stream or halogenated extinguishing agent. An aluminum fire may react with water to form hydrogen gas. Hydrogen gas is flammable and explosive.
Fire Fighting: Use SCBA in confined areas. If the aluminum is burning with a bright, whitish glow, do not attempt to extinguish it. Isolate the fire by ringing it with dry, inert granular material such as sand, or Class D extinguishing agent then let it alone. Allow the material to become cold prior to disposal. Closed containers that are exposed to the heat of a fire should be cooled with water fog.
Decomposition Products Under Fire Conditions: Carbon monoxide, carbon dioxide, smoke, and aluminum oxide, sulfur oxides, and methane.

Section 6 – Accidental Release Measures

Remove all sources of ignition. Ventilate area. Collect for disposal with spark-proof tools. Put in drum or other container.

Section 7 – Handling and Storage

Store in closed containers. Protect against electrostatic charges. Do not store above 120^0 F.

Section 8 – Exposure Controls & Personal Protection

Exposure Controls: General ventilation.
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: 2.05
Vapor Pressure, mmHg, at °F: N/A
Density (Lb./gal): N/A
Melting Point, °F: 1131 (aluminum)
Solubility In Water, wt. %: Negligible
Vapor Density (Air = 1): N/A
Evaporation Rate (n-Butyl Acetate = 1): N/A
Boiling Point, °F: 3645 (aluminum)
% Volatile (by weight): 0

Section 10 – Stability & Reactivity

Stability:	Stable
Hazardous Polymeriaztion:	Will not occur.
Conditions to Avoid:	N/A
Incompatibility:	Heat, sparks, open flames, water, acids, alkalies, strong oxidizing agents.
Hazardous Decomposition:	Aluminum reacts with water, acids, and alkalies to form hydrogen gas.

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):
Shipping name: Metal Powders
Hazard Class: 4.1 (Flammable Solids)

UN Number: UN-3089
Packing Group: II
Hazard Label: Flammable Solid

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: Crystalline silica (airborne particles)
Other: This product(s) contains the following SARA Section 313 Reportable Ingredients: 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.

	NPCA-HMIS	**NFPA 704**	KEY
Health	1	1	4 = Severe
Flammability	3	3	3 = Serious
Reactivity	3	3	2 = Moderate
			1 = Slight
			0 = Minimal

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.

Updated: 7-5-06