

SAFETY DATA SHEET



Date Issued : 04/12/2012
 SDS No : SC-125
 Date Revised : 01/03/2022
 Revision No : 3

SC-125

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SC-125
GENERAL USE: Aluminum granules

MANUFACTURER

BJB Enterprises, Inc.
 14791 Franklin Avenue
 Tustin, CA 92780
Emergency Phone: (714) 734-8450

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (USA & Canada): (800) 424-9300
 or (703) 527-3887 CCN# 2820

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

This product does not meet the criteria for classification.

GHS LABEL

Not Applicable

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: The materials present in this product in their powdered forms include aquatic toxicity to the environment, pyrophoric, flammability, self-heating capabilities, water reactivity, and acute toxicity. Inhalation of dusts and fumes can cause metal fume fever. Symptoms can include a metallic or sweet taste in the mouth, sweating, shivering, headache, throat irritation, fever, chills, thirstiness, muscle aches, nausea, vomiting, weakness, fatigue, and shortness of breath. Under normal use and handling of the solid form of this material there are few health hazards. Cutting, welding, melting, grinding etc. of these materials will produce dust, fume or particulate containing the component elements. Exposure to the dust, fume or particulate of these materials may present significant health hazards. Exposure to dust or fume may cause irritation of the eyes, skin and respiratory tract. Fine particulates dispersed in air may present an explosion hazard. Avoid generating dust, generating sparks, ignition sources, and take necessary precautions.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Aluminum	94.5	7429-90-5
Silicon	≤ 9.4	7440-21-3
Copper	≤ 1	7440-50-8
Zinc	≤ 1	7440-66-6

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical advice/attention if irritation develops.

SKIN: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical advice/attention if irritation or rash develops. Wash clothing before reuse.

INGESTION: If swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Provided the patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops.

NOTES TO PHYSICIAN: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

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5. FIRE FIGHTING MEASURES

GENERAL HAZARD: This product does not present fire or explosion hazards as shipped. Fine turnings, fine dust from processing may be readily ignitable. Flammable solid. May form combustible dust concentrations in air.

EXTINGUISHING MEDIA: Dry earth, sand, or Class D media ONLY. Do not use water or foam. Do not use halogenated extinguishing media.

EXPLOSION HAZARDS: This product does not present fire or explosion hazards as shipped. Avoid generation of dust; fine dust dispersed in air in sufficient concentration, and in the presence of an ignition source is a potential dust explosion hazards.

FIRE FIGHTING EQUIPMENT: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: Recover mechanically the product. No special precautions for large product fragments. For dust cleanup use protective equipment. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. Avoid dispersal of dust in the air (i.e. cleaning dust surfaces with compressed air). In case of formation of dust during processing, non-sparking tools should be used.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Do not discharge into drains, surface waters, or groundwater.

GENERAL PROCEDURES: Refer to section 8 of SDS for personal protection details.

COMMENTS: Dispose of materials or solid residues at an authorized site. Clean up spilled material and place in dry containers.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep away from sources of ignition - No smoking. Avoid generating dust. Avoid contact with skin and eyes. Keep material dry.

HANDLING: Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

STORAGE: Store in a dry area.

ELECTROSTATIC ACCUMULATION HAZARD: Dry powders can build static electricity charges when subjected to the friction of transfer and mixture operations. Provide adequate precautions, such as electrical grounding and bonding or inert atmospheres.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m ³
Aluminum	OSHA PEL	TWA	- ^[1]	15T 5R ^[1]
		STEL	-	-
	ACGIH TLV	TWA	- ^[1]	10T 1R ^[1]
		STEL	-	-
	NIOSH REL	TWA	- ^[1]	10T 5R ^[1]
		STEL	-	-
Silicon	OSHA PEL	TWA	- ^[1]	15T 5R ^[1]
		STEL	-	-
	ACGIH TLV	TWA	-	10
		STEL	-	-
	NIOSH REL	TWA	- ^[1]	10T 5R ^[1]
		STEL	-	-
Copper	OSHA PEL	TWA	- ^[2]	0.1 ^[2]
		STEL	-	-
	ACGIH TLV	TWA	- ^[2]	0.2 ^[2]
		STEL	-	-
	NIOSH REL	TWA	- ^[2]	0.1 ^[2]
		STEL	-	-
Zinc	OSHA PEL	TWA	- ^[2]	5 ZnO ^[2]
		STEL	-	-
	ACGIH TLV	TWA	- ^[2]	5 ZnO ^[2]
		STEL	- ^[2]	10 ZnO ^[2]
	NIOSH REL	TWA	- ^[2]	5 ZnO ^[2]
		STEL	-	-

Footnotes:
1. T = Total dust, R = Respirable fraction
2. Fume

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Safety goggles or glasses are recommended. Plastic face shields should be used for complete face protection to protect against possible splashing or spraying of material. ANSI Z87.1 or approved equivalent.

SKIN: Chemical-resistant gloves and chemical goggles, face-shield, and synthetic apron or coveralls should be used to prevent contact with eyes, skin, or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

RESPIRATORY: Exhaust ventilation recommended. An organic vapor cartridge or fresh air supplied respirator (NIOSH approved) may be necessary for certain applications. Consider the type of application, environmental concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).

PROTECTIVE CLOTHING: Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH.

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WORK HYGIENIC PRACTICES: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

OTHER USE PRECAUTIONS: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Training is important. Follow all label precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: None

COLOR: Gray

pH: Not Applicable

FLASH POINT AND METHOD: Not Applicable

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Applicable

BOILING POINT: 2056.1°C (3733°F)

MELTING POINT: 565.6°C (1050°F) to 660°C (1220°F)

SOLUBILITY IN WATER: Not Applicable

SPECIFIC GRAVITY: 2.71

10. STABILITY AND REACTIVITY

REACTIVITY: Hazardous reactions will not occur under normal transport or storage conditions.

STABILITY: This product is stable under normal ambient conditions of temperature and pressure.

CONDITIONS TO AVOID: Dust accumulation, moisture, and ignition sources.

POSSIBILITY OF HAZARDOUS REACTIONS: Heat generation and release of flammable hydrogen gas may occur when exposed to water, strong oxidizers, acids and alkalis, and halogenated compounds. A violent thermite reaction may occur if exposed to certain metal oxides, (ie. iron oxide, (rust), or copper and lead oxides.)

INCOMPATIBLE MATERIALS: Halocarbons, mercury, chlorine, chlorates, bromates, iodates, peroxides, perchlorates, nitrates, nitrites, oxides, performates, persulfates, halogens, oxides of nitrogen, melted sulfates, sulfur dioxide, propylene dichloride sodium carbide, sodium carbonate and sodium hydroxide.

COMMENTS: STORE INDOORS, KEEP DRY. DO NOT ALLOW DUST TO ACCUMULATE.

11. TOXICOLOGICAL INFORMATION**ACUTE TOXICITY**

Chemical Name	ORAL LD ₅₀	DERMAL LD ₅₀	INHALATION LC ₅₀
Aluminum	No data available	No data available	No data available
Silicon	No data available	No data available	No data available
Copper	No data available	No data available	No data available
Zinc	No data available	No data available	No data available

SKIN CORROSION/IRRITATION: No data available

SERIOUS EYE DAMAGE/IRRITATION: No data available

RESPIRATORY OR SKIN SENSITISATION: No data available

GERM CELL MUTAGENICITY: No data available

REPRODUCTIVE TOXICITY: No data available

STOT-SINGLE EXPOSURE: No data available

STOT-REPEATED EXPOSURE: No data available

ASPIRATION HAZARD: No data available

12. ECOLOGICAL INFORMATION

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ECOTOXICOLOGICAL INFORMATION: No specific ecological data are available for this product. Refer to Section 6 for information regarding accidental release and Section 15 for regulatory reporting information.

CHEMICAL FATE INFORMATION: No data available

BIOACCUMULATION/ACCUMULATION: No data available

ENVIRONMENTAL DATA: No data available

DISTRIBUTION: No data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Reuse or recycle material whenever possible. Recycle or dispose of material in accordance to local, state, or federal regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION): Not Regulated

AIR (ICAO/IATA): Not Regulated

VESSEL (IMO/IMDG): Not Regulated

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HEALTH HAZARDS: Refer to Section 2 for hazard classification.

313 REPORTABLE INGREDIENTS: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

EPCRA SECTION 313 SUPPLIER NOTIFICATION

Chemical Name	Wt.%	CAS	Comments
Aluminum	94.5	7429-90-5	Fume or Dust

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: This product contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical Name	Wt.%	CERCLA RQ
Copper	≤ 1	5,000 lbs.
Zinc	≤ 1	1,000 lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product does not contain any substances subject to TSCA Section 12(b) export notification.

TSCA STATUS: This product or its components are listed in or exempt from the TSCA inventory requirements.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

CALIFORNIA PROPOSITION 65: This product does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm.

OSHA HAZARD COMM. RULE: The contents of the SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

DOMESTIC SUBSTANCE LIST (INVENTORY): All components in this product are listed in or exempted from the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL).

16. OTHER INFORMATION

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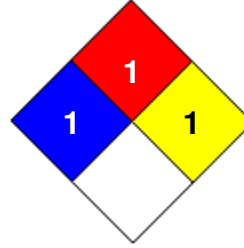
REASON FOR ISSUE: Revision

Date Revised: 01/03/2022

REVISION SUMMARY: This SDS replaces the 01/03/2022 SDS.

HMIS RATING

HEALTH	<input type="checkbox"/>	1
FLAMMABILITY	<input type="checkbox"/>	1
PHYSICAL HAZARD	<input type="checkbox"/>	1
PERSONAL PROTECTION	<input checked="" type="checkbox"/>	

NFPA CODES

HMIS RATINGS NOTES: Personal Protection: See Section 8

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