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# MATERIAL SAFETY DATA SHEET

MSDS No.: SS0151  
Revision Date: February 4, 2009  
Approved by: James A. Bertsch

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## Section 1 Chemical Product and Company Information

<b>Product</b>	<b>SILICON METAL LUMPS</b>
<b>Synonyms</b>	Silicon Metal

CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

## Section 2 Hazards Identification

Emergency Overview

**CAUTION!**  
IRRITANT AS DUST. DO NOT INHALE AS DUST OR FUME.  
Low hazard in the form of lumps. Wash thoroughly after handling.  
Target organs: None known.

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

<b>Health</b>	0
<b>Fire</b>	0
<b>Reactivity</b>	0
<b>Contact</b>	0

HMIS \*

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	TLV Units (ACGIH 2001)
Silicon metal lumps	7440-21-3	100%	TWA: 10 mg/m <sup>3</sup> for total dust containing no asbestos and less than 1% crystalline silica; STEL: 20 mg/m <sup>3</sup> as dust

## Section 4 First Aid Measures

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN CONTACT:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**General information:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. No associated hazards known at this time.

**Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Flash Point:** Not flammable.

**Autoignition temperature:** N/A

**Explosion Limits: Lower:** N/A **Upper:** N/A

## Section 6 Accidental Release Measures

Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe



## Section 7 Handling & Storage GENERAL STORAGE CODE GREEN

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

**Handling:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 Exposure Controls / Personal Protection

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical & Chemical Properties

**Physical state:** Solid.

**Appearance:** Metallic silver lumps.

**Odor:** No odor.

**pH:** N/A

**Vapor pressure (mm Hg):** N/A

**Vapor Density (Air = 1):** N/A

**Evaporation rate (Butyl acetate = 1):** N/A

**Viscosity:** N/A

**Boiling point:** N/A

**Freezing / Melting point:** 1440°C (2594°F)

**Decomposition temperature:** N/A

**Solubility:** Complete.

**Specific gravity (H<sub>2</sub>O = 1):** 2.3

**Percent volatile (%):** 100%

**Molecular formula:** Si

**Molecular weight:** 28.09

## Section 10 Stability & Reactivity

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Avoid generation of airborne dust.

**Incompatibilities with other materials:** Acids and strong bases.

**Hazardous decomposition products:** None known.

## Section 11 Toxicological Information

**Effects of overexposure:** Inhalation of dust may cause irritation to lungs, eyes and mucous membranes. Low hazard in the form of lumps. Exercise appropriate procedures to minimize potential hazards.

RTECS #: VW0400000

ORAL-RAT LD50: 3160 mg/kg

EYE-RABBIT: 3 mg/mild

## Section 12 Ecological Information

Data not yet available.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information

**UN/NA number:** N/A

**Shipping name:** Not Regulated.

**Hazard class:** N/A

**Packing group:** N/A

**Exceptions:** N/A

## Section 15 Regulatory Information

TSCA-listed, EINECS-listed (231-130-8), RCRA code D001, DSL-listed.

## Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards.