



Hummel Croton Inc.
10 Harmich Rd.
South Plainfield, NJ 07080
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Phone: 908-754-1800
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In Case Of Emergency Call
(U.S.) 800-424-9300
(International) +1-813-248-3924

Silicon Powder Safety Data Sheet

1. Product and Company

Product name: Silicon

Synonym: Silicon Metal Powder

CAS-No.: 7440-21-3

Company: Hummel Croton Inc.
10 Harmich Rd.
South Plainfield, NJ 07080

Telephone: 908-754-1800
Fax: 908-754-1815

HMIS Rating	
Health	1
Flammability	2
Reactivity	1
Personal Protection	E

Emergency telephone number

Emergency Phone #: Chemtrec US: 800-424-9300
ChemTel International: +1-813-248-0585

2. Hazards

GHS Label elements

Pictogram(s) Not a hazardous substance or mixture

Signal word Not a hazardous substance or mixture

Hazard statement(s)

Precautionary statement(s)

Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. Composition/Ingredients

Substance

Formula: Si
Molecular weight: 28.08 g/mol
CAS-No.: 7440-21-3

Material	CAS	%	OSHA	ACGIH
Silicon	7440-21-3	97-100%	10 mg/m ³ Total Dust	10 mg/m ³ Total Dust

4. First Aid

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

5. Fire Data

Flammability: Non-Flammable

Flash Point: Not Applicable

Auto Ignition: Not determined

Flammable Limits: Not Applicable

Extinguishing Media: Class D Fire: Use dry powder, dry sand, or carbon dioxide to smother.

Fire Fighting Procedure: Fire may also be isolated and allowed to burn itself out. Do not disturb burning metal while extinguishing the fire.

Fire/Explosion Hazards: Lump material is not combustible. When suspended in air, dusts of silicon metal can be readily ignited, propagate flame, and generate some pressure or explode. The degree of combustibility in air is dependent upon particle size, oxide coating, and quality of dispersion. The hazard increases with particle fineness. Avoid generating sparks or ignition sources in areas of high airborne dust levels or in areas of accumulated dust. Thoroughly clean areas or equipment to be maintained prior to dust disturbing or ignition source generation activities.

6. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

7. Handling And Storage

Storage Temperatures: Store at ambient temperature.

Shelf Life: Unlimited in tightly sealed container

Special Sensitivity: None

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

8. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

9. Physical And Chemical Properties

Physical Form: Solid

Color: Silvery Metal Powder

Odor: Odorless

Molecular Weight: 28.08

Boiling Point: N/A

Melting/Freezing Point: 1440°C

Solubility In Water: Insoluble

Specific Gravity: 2.3

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibilities: Acids and strong bases.

Instable Conditions: Excessive temperatures (see incompatibilities).

Decomposition Temperature: Not applicable.

Decomposition Products: Not applicable.

11. Toxicological Information

RTECS Number: VW 0400000

Routes Of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: LD50(Rat Oral): 3160 mg/kg.

Chronic Toxic Effects: Not known to cause any long term harmful health effects.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness.

Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

12. Ecological Information

Ecotoxicity: Not available at this time.

13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

14. Transportation Information

Proper Shipping Name: Silicon Crystalline

UN Number: N/A

Class: N/A

P.G.: N/A

Label Code: N/A

15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances which the state of California has found to cause cancer, birth defects, or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

16. Other Information

Prepared By: Michael Richard

Date: March 21, 2018

Reason For Issue: Emergency Contact Update

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