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International Advanced Materials

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Material Data Safety Sheet

Quick Identifier: Silicon

I. PRODUCT IDENTIFICATION

Trade Name: Silicon Formula: Si

Synonyms: Molecular Weight:

CAS #: 7440-21-3

II. HAZARDOUS INGREDIENTS

Hazardous Components:OSHA PEL:ACGIH TLV:Other Limits:Silicon15 mg/m310 mg/m35 mg/m3 resp.

omeon 13 mg m3 10 mg m3 10 g.

Sec. 302 (EHS): No Sec. 304 RQ: No Sec. 313: No HMIS Ratings (0-4): Health: 1 Flammability: 0 Reactivity: 0

HMIS Protective Equipment: **E:** Glasses, gloves, dust respirator

III. PHYSICAL DATA

Boiling Point: 2355 – 2600 C **Melting Point**: Approx. 1440

Specific Gravity (H2O=1):Approx. 2.3Vapor Density (Air=1):N/AVapor Pressure (mm Hg):N/AEvaporation Rate:N/A% Volatiles by Volume:N/ASolubility in H2O:Insoluble

Appearance and Odor: Metallic silver, No odor

IV. FIRE AND EXPLOSION HAZARDS DATA

Flash Point/Method: Not applicable

Explosive Limits: **LEL**: N/A **UEL**: N/A

Extinguishing Media: Class D fire. Use dry chemical, dry sand or 02 to smother the fire

Special Fire Fighting Procedures: Fire may also be isolated and allowed to burn by itself. Do not disturb

burning metal while extinguishing the fire.

Unusual Fire and Explosion Hazards: None Mentioned.

V. HEALTH HAZARD INFORMATION

Routes of Entry: Inhalation, Skin and Eyes.

Target Organs: N/A

Carcinogenicity: NTP: No IARC Monographs: No OSHA Regulated: No

LD50/LC50: No toxicity data recorded.

Health Hazards (Acute and Chronic):

Inhalation:

Acute: May cause abrasive irritation.

Chronic: N/A
Ingestion:
Acute: N/A
Chronic: N/A

Skin:

Acute: May cause abrasive irritation.

Chronic: N/A

Eye:

Acute: Dust and powder may cause abrasive irritation.

Chronic: N/A

Signs and Symptoms of Exposures:

Inhalation: Ingestion: Skin: Eve:

Medical Conditions Generally Aggravated by Exposure:

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove from dusty area to fresh air.

INGESTION: N/A

SKIN: No hazard associated with skin contact.

EYE: Flush with water to insure no particles remain in the eye.

VI. REACTIVITY DATA

Stability: Stable

Incompatibility (Material to avoid): Acids (avoid resulting fume) and strong bases

Hazardous Decomposition Products: Hydrogen gas **Hazardous Polymerization**: Will not occur

Conditions to Avoid: Avoid generation of airborne dusts.

VII. SPILL OR LEAK PROCEDURES

Steps to Be Taken in Case Material

Fine material should be swept up or vacuumed. Avoid using compressed

Is Released or Spilled: air to maneuver spills or leaks of fine material.

Waste Disposal Method: Dispose of in accordance with applicable federal, state and local

regulations.

Hazard Label Information: Not applicable

Precautions to Be Taken in Handling No special precautions are required.

and Storing:

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: In dusty areas use NIOSH – approved schedule 21C respirator.

Ventilation: Local Exhaust: Local for dusty operations.

Mechanical (General): N/A

Protective Gloves: Recommended during handling.

Eye Protection: Recommended wearing safety glasses.

Other Protective Clothing or Avoid contamination of work clothes.

Equipment:

Work/Hygienic/Maintenance Normal hygienic practices.

Practices:

IX. ADDITIONAL COMMENTS

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulations and the Toxic Substance Control Act (TSCA), these materials should only be handled by, or under the direct supervision of a "technically qualified individual", as defined in 40 CFR 710.2(aa).

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