

SAFETY DATA SHEET

Date Printed: 05/21/2024

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SECTION 1. IDENTIFICATION

Product Identifier: (5N) 99.999% Calcium Fluorosilicate

Product Code: CA-FSIAT6-05

CAS Number: 16925-39-6

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351
Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

Statement of Hazard:

Irritant, Respiratory irritant, Toxic

Acute Health Hazard:

Irritant to eyes, skin, mucous membranes and respiratory system.

May be fatal by ingestion, skin absorption and inhalation.

Chronic Health Hazard: Not Available

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

HMIS Rating:

H: 4

F: 0

P: 0

NFPA Rating:

H: 4

F: 0

R: 0

Pictogram:



Signal Word:

Danger

Hazard Statement(s):

H300 Fatal if swallowed.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

Precautionary Statement(s):

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink, or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 Wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 IF SKIN irritation occurs: Get medical advice/attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Calcium fluorosilicate dihydrate

CAS Number: 16925-39-6

EINECS Number: 240-991-9

SECTION 4. FIRST AID MEASURES

Eye Contact:

Flush eyes with large amounts of water for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact:

Wash skin with soap and water. If irritation persists, seek medical attention.

Ingestion:

Do not induce vomiting. Seek medical attention.

Inhalation:

Move to a fresh air environment. Contact a physician if breathing becomes difficult.

SECTION 5. FIREFIGHTING MEASURES

Flash Point (°C):

Not Available

Explosion Limits:

Not Available

Autoignition (°C):

Not Available

Extinguishing Media:

Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water spray

Protective Equipment:

Wear self-contained respirator and fully protective impervious suit.

Specific Hazards:

May emit hazardous fumes under fire conditions.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls.

Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed.

Keep unprotected persons away.

Environmental Protection:

Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

Handling and Storage:

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities:

Not Available

Storage Temperature (°C):

15 to 30

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eye Protection:

Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity.

Skin Protection:

Wear impervious gloves and protective clothing.

Respiratory Protection:

Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystals or powder

Odor: Odorless

Odor Threshold: Not Available

Flash Point (°C): Not Available

Autoignition (°C): Not Available

UEL % by Volume: Not Available

LEL % by Volume: Not Available

Melting Point (°C): Not Available

Boiling Point (°C): Not Available

Evaporation Rate: Not Available

pH Value: Not Available

Density (g/cm³): 2.622

Refractive Index (n²⁰D): Not Available

Viscosity: Not Available

Solubility in Water: Not Available

Solubility in Other: Not Available

Vapor Pressure (mmHg): Not Available

Vapor Density (Air=1): Not Available

SECTION 10. STABILITY AND REACTIVITY

Stability:

Stable under normal temperatures and pressures.

Incompatibility:

Not Available

Reactivity:

Product may react with incompatible materials to release other hazardous substances.

Conditions to Avoid:

Heat, flame, sparks, other ignition sources.

Hazardous Decomposition Products:

Calcium oxides, Hydrogen fluoride gas, Silicon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: EW4025000

Target Organs: Not Available

Toxicity Data: Not Available

National Toxicology Program (NTP) listed: Not Available

Carcinogenicity: International Agency for Research on Cancer (IARC) listed: Not Available

Potential Symptoms: Not Available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity: Not Available

SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Shipping Name: Fluorosilicates, N.O.S.
DOT UN Number: UN2856
DOT Hazard Class: Class 6.1
DOT Packing Group: PGIII

IMDG Shipping Name: Fluorosilicates, N.O.S.
IMDG UN Number: UN2856
IMDG Hazard Class: Class 6.1
IMDG Packing Group: PGIII

IATA Shipping Name: Fluorosilicates, N.O.S.
IATA UN Number: UN2856
IATA Hazard Class: Class 6.1
IATA Packing Group: PGIII

SECTION 15. REGULATORY INFORMATION

United States

Toxic Substance Control Act (TSCA) listed:

Yes

Superfund Amendments and Reauthorization Act (SARA 302) listed:

No

Superfund Amendments and Reauthorization Act (SARA 311/312) listed:

No

Superfund Amendments and Reauthorization Act (SARA 313) listed:

No

European Union

European Inventory of Existing Chemical Substances (EINECS): 240-991-9

Canada

Canadian Domestic Substances List (DSL) listed: No

Canadian Non-Domestic Substances List (NDSL) listed: Yes

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED

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