

SAFETY DATA SHEET

Date Printed: 10/31/2024

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SECTION 1. IDENTIFICATION

Product Identifier: (5N) 99.999% Calcium Selenite

Product Code: CA-SEIT-05

CAS Number: 13780-18-2

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

Statements of Hazard: Toxic

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. Fatal by ingestion, inhalation or skin absorption.

Chronic Health Hazard: Not Available

HMIS Rating:

H:3

F:0

P:0

NFPA Rating:

H:3

F:0

R:0

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

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):

P223

Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231+P232

Handle under inert gas. Protect from moisture.

P260

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

P264

Wash skin thoroughly after handling.

P270

Do not eat drink or smoke when using this product.

P280

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

P301+P312

IF SWALLOWED: Call a POISON

CENTER or doctor/physician if you feel unwell.

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.

Supplemental Statements:

EUH029

Contact with water liberates toxic gas.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Calcium selenite

Synonyms: Not Available

CAS Number: 13780-18-2

MDL Number: MFCD00049404

EINECS Number: 237-427-9

Belstein Registry Number: Not Available

Molecular Formula: Ca.H2O3Se

Molecular Weight: 167.04

Content: 99%

Notes: Not Available

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: Not Available

Explosion Limits:

Lower: Not Available

Upper: Not Available

Autoignition: 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.

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:

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.

Handle under inert gas. Protect from moisture.

Storage: Store under inert gas.

Sensitivities:Moisture, Air

Storage Temperature: 15 – 30 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:

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

Skin:

Wear impervious gloves and protective clothing.

Respiratory:

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 crystalline powder

Odor: Not Available

Melting Point: Not Available

Boiling Point: Not Available

pH Value: Not Available

Density: Not Available

Refractive Index, n_{20D}: Not Available

Viscosity: Not Available

Solubility in Water: Not Available

Vapor Pressure: Not Available

Vapor Density(Air=1): Not Available

SECTION 10. STABILITY AND REACTIVITY

Stability:

Stable under normal temperatures and pressures.

Incompatibility:

Strong oxidizing agents, Acids. Contact with water liberates toxic gas.

Conditions to Avoid:

Heat, Flame, Sparks, Other ignition sources

Hazardous Decomposition Products:

Calcium oxides, Selenium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: Not Available

Target Organs: Not Available

Toxicity Data: Not Available

Skin corrosion/irritation: Not Available

Serious eye damage/irritation: Not Available

Carcinogenicity: Not Available

SECTION 12. ECOLOGICAL INFORMATION

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: Selenites
DOT UN Number: UN2630
DOT Hazard Class: Class 6.1
DOT Packing Group: I

IMDG Shipping Name: Selenites
IMDG UN Number: UN2630
IMDG Hazard Class: Class 6.1
IMDG Packing Group: I

IATA Shipping Name: Selenites
IATA UN Number: UN2630
IATA Hazard Class: Class 6.1
IATA Packing Group: I

SECTION 15. REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA): Listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed

Superfund Amendments and Reauthorization Act (SARA 311/312): Not listed

Superfund Amendments and Reauthorization Act (SARA 313): Not listed

European Union:

European Inventory of Existing Chemical Substances

(EINECS): No. 237-427-9

Hazard Codes: Not Available

Risk Statements: Not Available

Safety Statements: Not Available

Canada

Canadian Domestic Substances List (DSL): Not listed

Canadian Domestic Substances List (NDSL): Listed

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

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