SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product Identifier: (5N) 99.999% Sodium Selenate Decahydrate

Product Code: NA-SEAT-05-C.10HYD

CAS Number: 10102-23-5

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

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Acute oral toxicity Category 3
Acute Inhalation Toxicity - Dusts and Mists Category 3
Specific target organ toxicity - (repeated exposure) Category 2

Label Elements

Signal Word
Danger
Hazard Statements
Toxic if swallowed
Toxic if inhaled
May cause damage to organs through prolonged or repeated exposure

Precautionary Statements
Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Response
Get medical attention/advice if you feel unwell
Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth
Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed
Disposal
Dispose of contents/container to an approved waste disposal plant
Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component
Selenic acid, disodium salt, decahydrate
CAS-No
10102-23-5

SECTION 4. FIRST AID MEASURES

General Advice
Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Eye Contact
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
Inhalation
Move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
Ingestion
Do not induce vomiting. Call a physician or Poison Control Center immediately.
Most important symptoms and effects
None reasonably foreseeable.
Notes to Physician
Treat symptomatically
SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media
Not combustible.
Unsuitable Extinguishing Media
No information available
Flash Point
No information available
Method - No information available
Autoignition Temperature
No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact
No information available
Sensitivity to Static Discharge
No information available
Specific Hazards Arising from the Chemical
Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous Combustion Products
Selenium oxide Sodium oxides
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.
Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.
Environmental Precautions
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment.
Methods for Containment and Clean Up
Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation

SECTION 7. HANDLING AND STORAGE

Handling
Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe vapors/dust. Do not ingest.
Storage
Keep containers tightly closed in a dry, cool and well-ventilated place.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection
Long sleeved clothing.

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Solid Crystalline

Appearance
White

Odor
No information available

Odor Threshold
No information available

pH
No information available

Melting Point/Range
35 °C / 95 °F

Boiling Point/Range
No information available

Flash Point
No information available

Evaporation Rate
Not applicable

Flammability (solid, gas)
No information available

Flammability or explosive limits
Upper
No data available
Lower
No data available

Vapor Pressure
No information available

Vapor Density
Not applicable

Specific Gravity
1.6 g/cm³

Solubility
No information available
Partition coefficient; n-octanol/water
No data available
Autoignition Temperature
No information available
Decomposition Temperature
No information available
Viscosity
Not applicable
Molecular Formula
Na2 SeO4.10H2 O
Molecular Weight
369.09 (188.94 anhy)

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard
None known, based on information available
Stability
Stable under normal conditions.
Conditions to Avoid
Incompatible products.
Incompatible Materials
Oxidizing agents
Hazardous Decomposition Products
Selenium oxide, Sodium oxides
Hazardous Polymerization
Hazardous polymerization does not occur.
Hazardous Reactions
None under normal processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Product Information
Component Information
Toxicologically Synergistic Products
No information available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritation
No information available
Sensitization
No information available
Carcinogenicity
Component
Selenic acid, disodium salt, decahydrate
IARC Not listed
NTP Not listed
ACGIH Not listed
OSHA Not listed
Mexico Not listed
Mutagenic Effects
No information available

Reproductive Effects
No information available.

Developmental Effects
No information available.

Teratogenicity
No information available.

STOT - single exposure
None known

STOT - repeated exposure
None known

Aspiration hazard
No information available

Symptoms / effects, both acute and delayed
No information available

Endocrine Disruptor Information
No information available

Other Adverse Effects
The toxicological properties have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability
based on information available. May persist

Bioaccumulation/Accumulation
No information available.

Mobility
Will likely be mobile in the environment due to its water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

DOT
UN-No UN2630
Proper Shipping Name SELENATES
Proper technical name (Sodium selenate decahydrate)
Hazard Class 6.1
Packing Group I
TDG
UN-No UN2630
Proper Shipping Name SELENATES
Hazard Class 6.1
Packing Group I
IATA
UN-No UN2630
Proper Shipping Name SELENATES
Hazard Class 6.1
Packing Group I
IMDG/IMO
UN-No UN2630
Proper Shipping Name SELENATES
Hazard Class 6.1
Packing Group I

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA 12(b) Not applicable
SARA 313 Not applicable
SARA 311/312 Hazard Categories See section 2 for more information
CWA (Clean Water Act) CWA - Toxic Pollutants
Clean Air Act HAPS Data
OSHA Not applicable
CERCLA Not applicable
California Proposition 65 This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations Not applicable
U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N
U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations
Mexico - Grade No information available

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 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.