

# SAFETY DATA SHEET

Date Printed: 05/20/2024

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (3N) 99.9% Sodium Selenate Decahydrate

**Product Code:** NA-SEAT-03-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

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### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component

Selenic acid, disodium salt, decahydrate

CAS-No

10102-23-5

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### **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

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## **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.

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## **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

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## **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.

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## 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.

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## 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/cm<sup>3</sup>

### 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  
Na<sub>2</sub> SeO<sub>4</sub>·10H<sub>2</sub> O  
Molecular Weight  
369.09 (188.94anhy)

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## **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.

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## **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.

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## **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.

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## **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.

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## **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

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## 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

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## 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 GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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