




[Sodium Selenate Decahydrate](#)

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Linear Formula	Na <sub>2</sub> SeO <sub>4</sub> • 10H <sub>2</sub> O
Pubchem CID	202320
MDL Number	MFCD00149174
EC No.	236-501-8
IUPAC Name	disodium selenate decahydrate
Beilstein/Reaxys No.	N/A
SMILES	O.O.O.O.O.O.O.O.O.O.[O-][Se](=O)(=O)[O-].[Na+].[Na+]
Inchl Identifier	InChI=1S/2Na.H2O4Se.10H2O/c;;1-5(2,3)4;;;;;;;;;;/h;;(H2,1,2,3,4);10*1H2/q2*+1;;;;;;;;;;/p-2
Inchl Key	TYVNFQRMDFYPC-UHFFFAOYSA-L

Signal Word	Danger
Hazard Statements	H301-H331-H373-H410
Hazard Codes	T, N
Precautionary Statements	P261-P273-P301 + P310-P311-P501
Risk Codes	23/25-33-50/53
Safety Statements	20/21-28-45-60-61
RTECS Number	VS6650000
Transport Information	UN 2630 6.1/PG 1
WGK Germany	2
GHS Pictograms	<p><a href="#">GHS06 Skull and Crossbones</a></p>  <p><a href="#">GHS08 Health Hazard</a></p>  <p><a href="#">GHS09 Environment</a></p> 

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# SAFETY DATA SHEET

Date Accessed: 05/04/2024

Date Revised: 01/15/2022

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## SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #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:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

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## 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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