



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Sodium Selenate, anhydrous**

PRODUCT NUMBER: 3313

CAS NUMBER: 13410-01-0

### MANUFACTURER:

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Danger**

### Hazard Statements

H300+H330	Fatal if swallowed or if inhaled
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

### Precautionary Phrases

P260	Do not breathe dust or mist.
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.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P314	Get medical advice/attention if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

### HMIS CLASSIFICATION:

Health: 3      Fire: 0      Reactivity Hazard: 0

### NFPA RATING:

Health: 2      Flammability: 0      Reactivity Hazard: 0

**EYE CONTACT:** May cause eye irritation.

**SKIN CONTACT:** May be harmful if absorbed through the skin. Causes skin irritation.

**INHALATION:** Fatal if inhaled. Causes respiratory tract irritation.

**INGESTION:** Fatal if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Na<sub>2</sub>SeO<sub>4</sub>

Molecular Weight: 188.94

CHEMICAL NAME	CAS#	%
Sodium Selenate, anhydrous	13410-01-0	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**SKIN EXPOSURE:** Rinse immediately with plenty of water and seek medical advice.

**INHALATION:** Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

**INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Product is not flammable

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use appropriate media for adjacent fire. Cool containers with water.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Sodium oxides and selenium oxides.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Without creating dust, sweep up and place in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts and aerosols. Open and handle container with care.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area in a tightly sealed container.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure limit values.

Component	Exposure Limits	Basis	Entity
Sodium Selenate	0.2 mg/m <sup>3</sup>	TLV	ACGIH
	0.2 mg/m <sup>3</sup>	PEL	OSHA
	0.2 mg/m <sup>3</sup>	REL	NIOSH

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete suit protecting against chemicals

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid  
**ODOR:** None  
**MOLECULAR WEIGHT:** 188.94  
**BOILING POINT:** Not available  
**MELTING POINT:** Not available  
**SPECIFIC GRAVITY:** 3.2 gm/ml  
**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID:** Exposure to moisture over prolonged periods of time.  
**INCOMPATIBILITY:** Strong oxidizing agents.  
**DECOMPOSITION PRODUCTS:** Selenium oxides and sodium oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 1.6mg/kg. Inhalation: Classified according to regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)  
**CARCINOGENIC EFFECTS:** According to ACGIH, OSHA, and NTP, no components of this product present at levels greater than or equal to 0.1% is identified a carcinogen. According to IARC this substance is not classifiable as to its carcinogenicity to humans. According to EPA this substance is not classifiable to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.  
**MUTAGENIC EFFECTS:** Not available  
**TETRAOGENIC EFFECTS:** Not available  
**CHRONIC TOXICITY:** Anemia, vomiting, diarrhea, cough, difficulty in breathing, acute selenium poisoning produced central nervous system effects, which include nervousness, convulsions, and drowsiness. Other signs of intoxication can include skin eruptions, lassitude, gastrointestinal distress, teeth that are discolored or decayed, odorous (“garlic”) breath, and partial loss of hair and nails. Chronic exposure by inhalation can produce symptoms that include pallor, coating of the tongue, anemia, irritation of the mucosa, lumbar pain, liver and spleen damage, as well as any of the other previously mentioned symptoms. Chronic contact with selenium compounds may cause garlic odor of breath and sweat, dermatitis, and moderate emotional instability.  
**RTECS:** VS6650000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

**AQUATIC VERTEBRATE:** mortality NOEC – Pimephales promelas (fathead minnow) – 1.25 mg/L – 5D. LC50 – Pimephales promelas (fathead minnow) – 0.69 mg/L – 96h. Mortality LOEC – Pimephales promelas (fathead minnow) -2.42mg/L – 5D.  
**AQUATIC INVERTEBRATE:** EC50 – Daphnia magna (water flea) – 0.39mg/L – 48h.  
**TERRESTRIAL:** Growth inhibition LOEC – Chlorella vulgaris (Fresh water algae) – 0.083 mg/L – 7d. Growth inhibition EC50 – Ankistrodesmus falcatus – 0.033 mg/L – 14d.  
**BIOACCUMULATIVE POTENTIAL:** Pimphales promelas (fathead minnow) – 8 week – 10.7µg/L. Bioconcentration factor (BCF): 153.8

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

UN2630 Marine Pollutant: No  
Selenates  
(Sodium Selenate)  
CLASS 6.1  
PG I

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**DSCL (EEC):** Listed on the DSCL inventory

**SARA 302/304:** Listed: Sodium Selenate

**SARA 311/312:** Acute Health Hazard, Chronic Health Hazard

**SARA (TITLE 313):** Listed: Sodium Selenate

**CALIFORNIA PROP. 65:** Not Listed

**WHMIS CANADA:** Class D-1A: Very toxic material causing immediate and serious toxic effects.

**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** Sodium Selenate

**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Sodium Selenate

**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Sodium Selenate

## **SECTION 16 OTHER INFORMATION**

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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