

Section 1. Product and Company Identification

Product Name Sodium selenate
CAS Number 13410-01-0

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Section 2. Hazards Identification

Classification of the substance or mixture
Classification in accordance with Regulation (EC) No 1272/2008 (CLP)
Acute Tox. 3: H301
Acute Tox. 3: H331
Aquatic Acute 1: H400
Aquatic Chronic 1: H410
STOT RE 2: H373

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard statement(s)

H301: Toxic if swallowed.

H331: Toxic if inhaled.

H373: May cause damage to organs through prolonged or repeated exposure

H410: Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.



P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

PBT assessment: The product is not considered to be a PBT.

vPvB assessment: The product is not considered to be a vPvB.

Section 3. Composition / Information on Ingredients

Common Name	Sodium selenate
Formula	Na_2SeO_4
CAS Number	13410-01-0

Section 4. First Aid Measures

General information: Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of accident or if you feel unwell, seek medical advice immediately. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation: Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact: When in contact with the skin, clean with soap and water.

After eye contact: Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion: Call in a physician immediately and show him the Safety Data Sheet. Rinse out mouth and give plenty of water to drink.

Most important symptoms and effects, both acute and delayed: No data available.

Indication of any immediate medical attention and special treatment needed: No data available.

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable extinguishing media: Water

Special hazards arising from the substance or mixture: In case of combustion evolution of dangerous gases possible.

Advice for firefighters: The product is highly hygroscopic. Use self-contained breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Use breathing apparatus if exposed to vapors/dust/aerosol.

For emergency responders: No data available.

Environmental precautions: Do not discharge into the drains/surface waters/groundwater.

Methods and material for containment and cleaning up: Take up mechanically. Send in suitable containers for recovery or disposal.

Reference to other sections: No data available.

Section 7. Handling and Storage

Precautions for safe handling

Advice on safe handling: Provide good ventilation at the work area (local exhaust ventilation, if necessary). Avoid the formation and deposition of dust. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

General protective and hygiene measures: Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not inhale dust. Store work clothing separately. Avoid contact with eyes and skin. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion: Avoid formation of dust. Keep away from sources of heat and ignition.

Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: Keep container tightly closed and dry in a cool, well-ventilated place. Protect from atmospheric moisture and water. Product is hygroscopic.

Requirements for storage rooms and vessels: Store product in closed containers. Keep only in the original container.

Advice on storage assembly: Do not store together with foodstuffs. Keep away from water. Do not store together with: Metals which are attacked by an alkaline medium. Oxidizing agents

Section 8. Exposure Controls / Personal Protection

Occupational exposure limit values

Sodium selenate

List of approved workplace and exposure limits (WELs)/EH40

TWA: 0.1 mg/m³

Exposure controls

Appropriate engineering controls: No data available.

Personal protective equipment

Respiratory protection: If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. Short term filter apparatus, Filter P3

Eye/face protection: Tightly fitting safety glasses (EN 166).

Hand protection: Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Check in any case suitability of protective glove for the specific workplace conditions {e.g. mechanical resistance, product compatibility, antistatic properties}. Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Appropriate Material Neoprene category III, EN 374 AKL, EN388:2003 3121

Other: Acid-resistant protective clothing

Environmental exposure controls: No data available.

Section 9. Physical and Chemical Properties

Form/Color: Powder white

Odor: Odorless

Odor Threshold: No data available

pH value (20°C)(10g/l): 9 - 10

Boiling point/boiling range: No data available

Melting point/melting range: 710°C

Decomposition point/decomposition range: No data available

Flash point: Not applicable

Auto-ignition temperature: No data available

Oxidizing properties: No data available

Explosive properties: Not applicable

Flammability (solid, gas): No data available

Lower flammability or explosive limit: No data available

Upper flammability or explosive limit: No data available

Vapor pressure: Not applicable

Evaporative rate: No data available

Vapor density: No data available

Relative density: No data available

Density: No data available

Bulk density: 1000 - 1200 kg/m³

Solubility in water (20°C): 780 g/L

Solubility(ies): No data available

Partition coefficient n-octanol/water: No data available

Viscosity: No data available

Other information: No data available

Section 10. Stability and Reactivity

Reactivity: No data available.

Chemical stability: No data available.

Possibility of hazardous reactions: No data available.

Conditions to avoid: The product is highly hygroscopic. Aqueous solutions react alkaline.

Incompatible materials: Metals which are attacked by an alkaline medium. Oxidizing agents

Hazardous decomposition products: At strong heating, decomposition under selenium dioxide formation may occur.

Section 11. Toxicological Information

Acute oral toxicity

LD50: 1600 µg/kg

Species: Rat

Source: RTECS

Acute dermal toxicity: No data available

Acute inhalation toxicity: No data available

Skin corrosive/irritation: Irritant

Serious eye damage/irritation: Irritant

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Reproductive toxicity: Indications of toxic effects are available from reproductive studies in animals.

Carcinogenicity: No data available

STOT - single exposure: No data available

STOT - repeated exposure: No data available

Aspiration hazard: No data available

Section 12. Ecological Information

Toxicity of fish (acute)

Duration of exposure: 24 mg/L; 96h

Species: Brachydanio rerio

Source: Bulletin of STDA, June 1993

Toxicity to fish (chronic): No data available

Toxicity to Daphnia (acute)

Duration of exposure: 7.9 mg/L; 48h

Species: Daphnia magna

Source: Bulletin of STDA, June 1993

Toxicity to Daphnia (chronic): No data available

Toxicity to algae (acute)

Duration of exposure: 96.6 mg/L; 72h

Species: Selenastrum capricornutum

Source: Bulletin of STDA, June 1993

Toxicity to algae (chronic): No data available



Bacteria toxicity: No data available

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Results of PBT and vPvB assessment

PBT assessment: The product is not considered to be a PBT.

vPvB assessment: The product is not considered to be a vPvB.

Other adverse effects: No data available

Other information: Do not discharge into the drains or waters and do not store on public depositories.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Transport ADR/RID/ADN

Class: 6.1

Classification code: T5

Packing group: I

Hazard identification no.: 66

UN number: UN2630

Technical name: SELENATES

Danger releasing substance: sodium-selenate

Tunnel restriction code: C/E

Label: 6.1

Environmentally hazardous substance mark: Symbol "fish and tree"

Transport IMDG

Class: 6.1

Packing group: I

UN number: UN2630

Proper shipping name: SELENATES

Danger releasing substance: sodium-selenate

Ems: F-A+S-A

Label: 6.1

Marine pollutant mark: Symbol "fish and tree"

Transport ICAO-TI/IATA

Class: 6.1

Packing group: I

UN number: UN2630

Proper shipping name: SELENATES

Danger releasing substance: sodium-selenate

Label: 6.1

Other Information: No data available.

Special precautions for user: No data available.

Transport in bulk according to Annex II of Marpol and the IBC Code: Not relevant

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorization): In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorization.

REACH candidate list of substances of very high concern (SVHC) for authorization: In accordance with article 57 and article 59 of the REACH regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorization ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XIV: RESTRICTIONS ON THE MANUFACTURE PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES: The substance is not subject to the provisions on annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006

Directive 2012/18/EU on the control of major accident hazards involving dangerous substances: This product is subject to Part I of Annex I risk category E1, H2. If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/EU, the lowest qualifying quantities set out in Part 1 and part 2 of Annex I shall apply.

Other regulations: Adhere to the national sanitary and occupational safety regulations when using this product.

Chemical safety assessment: No data assessment



Section 16. Other Information

Disclaimer: 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.

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