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# MATERIAL SAFETY DATA SHEET (MSDS)

## SODIUM SELENATE AR

#### 1 - Chemical Product

Product Name: Sodium selenate

Synonym: Disodium selenate; Selenic acid, disodium salt.

CAS NO:13410-01-0

Product Coad: S0192001000

Molecular Formula: Na2O4Se Molecular Weight: 188.94

#### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
13410-01-0	Sodium selenate	ca. 100	236-501-8

Hazard Symbols: T N Risk Phrases: 23/25 33 50/53

### 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW Toxic by inhalation and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Potential Health EffectsEye:Causes severe eye irritation.

Skin:Causes skin irritation. May be absorbed through the skin in harmful amounts. Chronic exposure to selenium may cause central nervous system effects, digestive tract disturbances, pallor, garlic breath,

Ingestion:May be fatal if swallowed. Poison by ingestion. Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause liver and kidney damage. May cause cardiac abnormalities.

Inhalation: Causes respiratory tract irritation. Irritation may lead to chemical pneumonitis and pulmonary edema. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count

Chronic:May cause reproductive and fetal effects. Chronic exposure to selenium may cause central nervous system effects, digestive tract disturbances, pallor, garlic breath, Laboratory experiments have resulted in mutagenic effects.

#### **4 - FIRST AID MEASURES**

Eyes:Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Skin:Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

### **5 - FIRE FIGHTING MEASURES**

General Information:As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Extinguishing Media:In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

## **6 - ACCIDENTAL RELEASE MEASURES**

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

#### 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Keep container closed when not in use.



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#### 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Exposure Limits CAS# 13410-01-0: United Kingdom, WEL - TWA: (listed as selenium compounds): 0.1 mg TWA (except hydrogen selenide, as Se) United Kingdom, WEL - STEL: (listed as selenium compounds): 0.3 m STEL (except hydrogen selenide, as Se)

United States OSHA: 0.2 mg/m3 TWA (as Se) (listed under Selenium compounds). Belgium - TWA: (listed as selenium compounds): 0.2 mg/m3 VLE (as

Japan: (listed as selenium compounds): 0.1 mg/m3 OEL (except SeH2 SeF6, as Se)

Malaysia: (listed as selenium compounds): 0.2 mg/m3 TWA (as Se)

Netherlands: (listed as selenium compounds): 0.1 mg/m3 MAC (as Se

Spain: (listed as selenium compounds): 0.1 mg/m3 VLA-ED (except hydrogen selenide, as Se) Personal Protective Equipment

Eyes: 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: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: 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.

#### 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder Color: white Odor: odorless pH: Not available. Vapor Pressure: Not available.

Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: Not available.

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available. Explosion Limits, upper: Not available.

Decomposition Temperature: Solubility in water: 840 g/l Specific Gravity/Density:

### **10 - STABILITY AND REACTIVITY**

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid:None reported.

Incompatibilities with Other Materials:

None reported.

Hazardous Decomposition Products:

Toxic fumes of sodium oxide, selenium/selenium oxides.

Hazardous Polymerization: Has not been reported

### 11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 13410-01-0: VS6650000

LD50/LC50:

CAS# 13410-01-0: Oral, rabbit: LD50 = 2250 ug/kg; Oral, rat: LD50 = 1600 ug/kg.

Carcinogenicity:

Sodium selenate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

## 12 - ECOLOGICAL INFORMATION

Other No information available.

## 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.



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#### 14 - TRANSPORT INFORMATION

Shipping Name: SELENATES Hazard Class: 6.1 UN Number: 2630

Packing Group: I IMO

Shipping Name: SELENATES

Hazard Class: 6.1

UN Number: 2630

Packing Group: I RID/ADR Shipping Name: SELENATES

Hazard Class: 6.1

UN Number: 2630 Packing group: I

## 15 - REGULATORY INFORMATION

European/International Regulations European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases

R 23/25 Toxic by inhalation and if swallowed. R 33 Danger of cumulative effects. R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 20/21 When using do not eat, drink or smoke. S 28 After contact with skin, wash immediately with... S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 60 This material and its container must be disposed of as hazardous waste. S 61 Avoid release to the environment. Refer to special instructions/safety data sheets. WGK (Water Danger/Protection) CAS# 13410-01-0: 2 Canada CAS# 13410-01-0 is listed on Canada's DSL List. CAS# 13410-01-0 is listed on Canada's Ingredient Disclosure List. US FEDERAL TSCA CAS# 13410-01-0 is listed on the TSCA inventory.

#### 16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

#### DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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