



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

MATERIAL SAFETY DATA SHEET

SODIUM SELENITE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
---	---	--

Date: August 2007

Synonyms: Selenious Acid Disodium Salt

CAS #: 10102-18-8

DOT Hazard Class: Poison, UN2630

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Sodium Selenite 100%

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: White crystalline powder with slight garlic odor that is extremely toxic if swallowed, inhaled, or absorbed through the skin.

POTENTIAL HEALTH EFFECTS:

Skin: May cause carbuncle or rash, may be absorbed through skin.

Eyes: May cause irritation or burning.

Inhalation: Extremely toxic by inhalation.

Ingestion: Extremely toxic by ingestion.

CARCINOGENICITY: IARC (3) Selenium and Selenium compounds.

SECTION 4 - FIRST AID MEASURES

Skin: Immediately wash skin with water thoroughly for 20 minutes. Apply ointment or solution containing 10% Sodium Thiosulfate. A 10% Sodium Thiosulfate solution will reduce Sodium Selenite to Selenium metal. Seek medical attention if necessary.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart and irrigate with a 10% Sodium Thiosulfate solution.

Inhalation: Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Ingestion: Seek immediate medical attention.

On All Of The Above: Consult a physician if symptoms persist.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Non Combustible

Flammable Limits: Non combustible

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: Emits toxic fumes under fire conditions.

Auto Ignition Temperature: Not Applicable

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: (ACGIH/PEL): 0.2 mg (Se)/m³, (TLV-TWA): 0.2 mg (Se)/m³

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Available

Vapor Pressure (MM Hg): Not Available

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: Decomposes at 600 °C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Complete

pH: 7-9

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Selenium, Selenium oxides.

KEEP AWAY FROM: Strong acids, moisture, and reducing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral Rat (LD50): 7 mg/kg	The substance is toxic to blood, kidneys, lungs, the nervous system and liver.
Oral Rabbit (LD50): 2250 mg/kg	
Oral GPG (LD50): 506 mg/kg	

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Selenites
TECHNICAL SHIPPING NAME: Sodium Selenite
U.N./NUMBER: UN2630
D.O.T. HAZARD CLASS AND GROUP NUMBER: Class 6.1, Packing Group I
D.O.T. PLACARD: Toxic

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) 100

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance 10/10,000

Section 313 Toxic Chemicals: Selenium Compounds 1.0*

Section 311/312 Hazard Category: Acute and Chronic Health Hazard

SECTION 16 - OTHER INFORMATION

HMIS: Health Hazard 3
Fire Hazard 0
Reactivity 0

Reason for Issue: Changed Date

This information is given without any warranty or representation. It is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. American International Chemical, Inc., shall not be held liable for any damage resulting from handling or contact with the above product. It is offered solely for your consideration, investigation and verification.
