CAUTIONARY RESPONSE INFORMATION

Common Synonyms
Disodium selenite
Selenious acid, disodium salt

Keep people away. Avoid contact with solid and dust. Wear goggles, self-contained breathing apparatus, and rubber overclothing (including gloves). Notify local health and pollution control agencies. Protect water intakes.

Personal Protective Equipment:
Wear a respirator or dust mask, safety glasses or chemical goggles, and protective clothing (including gloves). To avoid skin contamination.

Symptoms Following Exposure:
Irritating to skin and eyes. Move to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. If SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting. IF SWALLOWED and victim is UNCONSCIOUS or HAVING CONVULSIONS, do nothing except keep victim warm.

Exposure
CALL FOR MEDICAL AID. Not flammable. POISONOUS GASES MAY BE PRODUCED IN FIRE. WEAR GOGGLES, SELF-CONTAINED BREATHING APPARATUS, AND RUBBER OVERCLOTHING (INCLUDING GLOVES). Notify local health and pollution control agencies. Notify operators of nearby water intakes. Notify local health and wildlife officials.

Water Pollution
HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes. Not pertinent.

1. CORRECTIVE RESPONSE ACTIONS
   Dilute and disperse
   Stop discharge

2. CHEMICAL DESIGNATIONS
   2.1 CG Compatibility Group: Not listed.
   2.2 Formula: Na₂SeO₃
   2.3 IMO/UN Designation: Not listed
   2.4 DOT ID No.: 2630
   2.5 CAS Registry No.: 10102-18-8
   2.6 NAERG Guide No.: 151
   2.7 Standard Industrial Trade Classification: 52499

3. HEALTH HAZARDS
   3.1 Personal Protective Equipment: Wear a respirator or dust mask, safety glasses or chemical goggles, and protective clothing (including gloves) to avoid skin contamination.
   3.2 Symptoms Following Exposure: INHALATION OR INGESTION: Nervousness and fear followed by vomiting, restlessness, tachycardia, hypersalivation, and diaphoresis. EYES: Wash with copious amounts of water.
   3.3 Treatment of Exposure: Call a physician. INHALATION: Follow "general procedures" for poisons. EYES: Wash with copious amounts of water. SKIN: Wash with copious amounts of water. INGESTION: Induce vomiting until vomit is clear, follow with gastric lavage and saline cathartics.
   3.4 TLV-TWA: Not listed
   3.5 TLV-STEL: Not listed
   3.6 TLV-CEILING: Not listed
   3.7 Toxicity by Ingestion: Grade 4; LD₅₀ below 50 mg/kg.
   3.8 Toxicity by Inhalation: Current not available.
   3.9 Chronic Toxicity: A suspected carcinoagen. Chronic exposure can cause gastrointestinal disorders, nervousness, pallor, coated tongue, and a garlicky odor of the breath. Liver and spleen damage, emaciation, ataxic, and progressive anemia.
   3.10 Vapor (Gas) Ignition Characteristics: Currently not available.
   3.11 Liquid or Solid Characteristics: Fairly severe skin irritant. May cause pain and second-degree burns after a few minutes contact.
   3.12 Odor Threshold: Currently not available.
   3.13 IDLH Value: Not listed.
   3.14 OSHA PEL-TWA: Not listed.
   3.15 OSHA PEL-STEL: Not listed.
   3.16 OSHA PEL-CEILING: Not listed.
   3.17 EPA AEGL: Not listed

4. FIRE HAZARDS
   4.1 Flash Point: Not flammable
   4.2 Flammable Limits in Air: Not flammable
   4.3 Fire Extinguishing Agents: Not pertinent
   4.4 Fire Extinguishing Agents Not To Be Used: Not pertinent
   4.5 Special Hazards of Combustion: Products: Emits toxic NaO and Se dugs when heated to decomposition.
   4.6 Behavior in Fire: Decomposes at elevated temperatures (>32°C).
   4.7 Auto Ignition Temperature: Not pertinent
   4.8 Electrical Hazards: Currently not available
   4.9 Burning Rate: Not flammable
   4.10 Adiabatic Flame Temperature: Currently not available
   4.11 Stoichiometric Air to Fuel Ratio: Not pertinent
   4.12 Flame Temperature: Currently not available
   4.13 Combustion Molar Ratio (Reactant to Product): Not pertinent
   4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed

5. CHEMICAL REACTIVITY
   5.1 Reactivity with Water: No reaction
   5.2 Reactivity with Common Materials: Currently not available
   5.3 Stability During Transport: Stable
   5.4 Neutralizing Agents for Acids and Caustics: Currently not available
   5.5 Polymerization: Not pertinent
   5.6 Inhibitor of Polymerization: No pertinent

6. WATER POLLUTION
   6.1 Aquatic Toxicity: 10 ppm/96-hour/Goldfish (toxic) hard water
   6.2 Waterfowl Toxicity: Currently not available
   6.3 Biological Oxygen Demand (BOD): Currently not available
   6.4 Food Chain Concentration Potential: Marine and freshwater plants 800, invertebrates and fish 400.
   6.5 GESAMP Hazard Profile: Bioaccumulation: 0 Damage to living resources: 3 Human Oral hazard: 4 Human Contact hazard: II Reduction of amenities: XXX

7. SHIPPING INFORMATION
   7.1 Grades of Purity: Se-44% to 46.5% Total metallic impurities-0.02% to 0.1%
   7.2 Storage Temperature: Cold
   7.3 Inert Atmosphere: Currently not available
   7.4 Venting: Currently not available
   7.5 IMO Pollution Category: Currently not available
   7.6 Ship Type: Currently not available
   7.7 Barge Hull Type: Currently not available

8. HAZARD CLASSIFICATIONS
   8.1 49 CFR Category: Poison
   8.2 49 CFR Class: 6.1
   8.3 49 CFR Package Group: II
   8.4 Marine Pollutant: No
   8.5 NFPA Hazard Classification: Not listed
   8.6 EPA Reportable Quantity: 100 pounds
   8.7 EPA Pollution Category: B
   8.8 RCRA Waste Number: Not listed
   8.9 EPA FWPCA List: Yes

9. PHYSICAL & CHEMICAL PROPERTIES
   9.1 Physical State at 15°C and 1 atm: Solid
   9.2 Molecular Weight: 172.95 (anhydrous salt)
   9.3 Boiling Point at 1 atm: Decomposes
   9.4 Freezing Point: Decomposes
   9.5 Critical Temperature: Currently not available
   9.6 Critical Pressure: Currently not available
   9.7 Specific Gravity: Currently not available
   9.8 Liquid Surface Tension: Not pertinent
   9.9 Liquid Water Interfacial Tension: Not pertinent
   9.10 Vapor (Gas) Specific Gravity: (calculated) Anhydrous salt: 5.38 Pentahydrate: 9.07
   9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
   9.12 Latent Heat of Vaporization: Currently not available
   9.13 Heat of Combustion: Not pertinent
   9.14 Heat of Decomposition: Currently not available
   9.15 Heat of Solution: Currently not available
   9.16 Heat of Polymerization: Not pertinent
   9.17 Heat of Fusion: Currently not available
   9.18 Limiting Value: Currently not available
   9.19 Reid Vapor Pressure: Currently not available

NOTES

JUNE 1999
### SODIUM SELENITE

#### 9.20 SATURATED LIQUID DENSITY

<table>
<thead>
<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
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</thead>
<tbody>
<tr>
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<tr>
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#### 9.21 LIQUID HEAT CAPACITY

<table>
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<tr>
<th>Temperature (degrees F)</th>
<th>British thermal unit per pound-F</th>
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#### 9.22 LIQUID THERMAL CONDUCTIVITY

<table>
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<th>Temperature (degrees F)</th>
<th>British thermal unit inch per hour-square foot-F</th>
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#### 9.23 LIQUID VISCOSITY

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<tr>
<th>Temperature (degrees F)</th>
<th>Centipoise</th>
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#### 9.24 SOLUBILITY IN WATER

<table>
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<tr>
<th>Temperature (degrees F)</th>
<th>Pounds per 100 pounds of water</th>
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#### 9.25 SATURATED VAPOR PRESSURE

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<th>Temperature (degrees F)</th>
<th>Pounds per square inch</th>
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<td>CURRENTLY</td>
<td>CURRENTLY</td>
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<tr>
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#### 9.26 SATURATED VAPOR DENSITY

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<th>Temperature (degrees F)</th>
<th>Pounds per cubic foot</th>
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</thead>
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<td>NOT</td>
</tr>
<tr>
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#### 9.27 IDEAL GAS HEAT CAPACITY

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<tr>
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**JUNE 1999**