Product Identification

Product Name: SODIUM TUNGSTATE
Synonyms: Tungstic acid, sodium salt; Sodium wolframate
Chemical Formula: Na2WO4 2H2O
Formula Weight: 329.86
Chemical Family: Inorganic tungstate
Integra Product Numbers: S629.10

Hazard Overview

HMSI Rating: 1-0-0-E  NFPA Rating: NE
Warning Label: Caution.
May cause irritation. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing.

Components

Component      CAS #     %
Sodium tungstate  10213-10-2 100

Physical Data

Boiling Point: NA
Melting Point: NA
Vapor Pressure: NA
Specific Gravity: 3.2 Water=1
Evaporation Rate: NA
Vapor Density: NA Air = 1

Solubility:
Appreciably soluble (>10%) in water.

Appearance and Odor:
White crystalline powder.

Fire and Explosion Data

Flash Point: NA
Auto-ignition Temperature: NA
Flammable Limits (% by volume in air): Upper: NA Lower: NA

Fire Extinguishing Media:
Material is not flammable. Use extinguishing media suitable to surrounding materials.

Special Firefighting Procedures:
Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

Unusual Fire and Explosion Hazards:
None identified

Health Hazard Information

Effects of Overexposure

Skin Contact:
Contact may cause skin irritation.

Eye Contact:
Health Hazard Information

**Eye Contact:**
Contact may be irritating to the eyes.

**Ingestion:**
Ingestion of soluble tungsten compounds can cause nervous prostration, diarrhea.

**Inhalation:**
Inhalation may irritate the nose, throat and upper respiratory tract.

**Chronic Effects of Overexposure:**
Animal studies suggest that soluble tungsten compounds may cause adverse gastrointestinal and central nervous system effects. These effects have not been observed in humans.

### Exposure Limits:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
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</thead>
<tbody>
<tr>
<td>Sodium tungstate</td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td></td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Sodium tungstate</td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>(as W) 1 mg/m³</td>
<td>(as W) 5 mg/m³</td>
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</table>

### Toxicity Data:

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 (intraperitoneal, rat)</th>
<th>LD50 (oral, guinea pig)</th>
<th>LD50 (oral, rabbit)</th>
<th>LD50 (oral, rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium tungstate</td>
<td>204 mg/kg</td>
<td>1152 mg/kg</td>
<td>875 mg/kg</td>
<td>1190 mg/kg</td>
</tr>
</tbody>
</table>

### Medical Conditions Generally Aggravated by Exposure:
Pulmonary conditions.

### Target Organs:
None Identified

### Reproductive Effects:
None Identified

### Carcinogenicity:
None Identified

### Emergency First Aid Procedures:

**Skin Contact:**
Wash with soap and water. Seek medical attention if irritation develops.

**Eye Contact:**
Flush eyes with water. If irritation persists, seek medical attention.

**Inhalation:**
Remove to fresh air.

**Ingestion:**
Give victim large amounts of water and induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention.

Additional First aid and Treatment Notes:
Emergency First Aid Procedures

No information available

Reactivity Data

Stability: Stable
Hazardous Polymerization: Will Not Occur
Incompatibles: None identified
Decomposition Products: None identified
Conditions to Avoid: None identified

Spill and Disposal Procedures

Spill and Leak Procedures:
Prevent spread of spill. Sweep or scoop into disposal container. Flush residues with water. Wear suitable protective equipment.

Disposal Procedures:
Dispose in accordance with all Local, State and Federal regulations.

Protective Equipment

Ventilation:
Use general or local exhaust ventilation to meet TLV and PEL requirements.

Respiratory Protection:
None required where adequate ventilation conditions exist. If airborne concentration exceeds PEL or TLV a dust/mist respirator is recommended.

Skin and Eye Protective Equipment:
Safety goggles, protective clothing and gloves. Maintain an eyewash station and safety shower nearby. Rubber gloves are recommended.

Storage and Handling Precautions

Storage Area: GENERAL
Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Protect containers from physical damage.

Transportation Information

☐ Regulated Material domestic ground transportation
   (reference: CFR Title 49, Transportation)
   Proper Shipping Name: 
   UN or NA Identification number: 
   Hazard Class and Label: 
   Packing Group: 
   Subsidiary Risk and Label:

☐ Regulated Material via Air Transportation
   (reference: ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air)
SODIUM TUNGSTATE
MATERIAL SAFETY DATA SHEET

INTEGRA Chemical Company
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)

Transportation Information

Proper Shipping Name:
UN Identification Number:
Packing Group:
Hazard Class and Label:
Subsidiary Risk and Label:
Packing Instruction
Max net qty per package
Passenger Aircraft:
Cargo Aircraft:

Regulatory Information

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA Inventory</th>
<th>CERCLA RQ</th>
<th>SARA EHS TPQ</th>
<th>SARA 313 Toxic Release</th>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>lbs</td>
<td></td>
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<tr>
<td>SARA Hazard Categories:</td>
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<td>Chronic</td>
<td>Flammability</td>
<td>Pressure</td>
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<td>Clean Air Act Categories:</td>
<td>SOCMI</td>
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</tbody>
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MSDS Revision History:
002 - Changed header phone number
003 - Format revisions; updated header phone number
004 - Updated Header Information

NE = Not established, NA = Not applicable or Not available

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***** END OF MSDS *****