SAFETY DATA SHEET: SODIUM PERSULFATE

1. IDENTIFICATION

Product Name: SODIUM PERSULFATE
Synonyms: Disodium peroxodisulphate
Formula and Formula Weight: Na2S2O8  238.13
Integra numbers beginning with: S513.50
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

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

2. HAZARDS IDENTIFICATION

.| OSHA Classification: |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Acute Toxicity - Oral</td>
<td>4  Harmful if swallowed.</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2  Causes skin irritation.</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>2A  Causes serious eye irritation.</td>
</tr>
<tr>
<td>Sensitization - Respiratory</td>
<td>1  May cause allergy or asthma symptoms or breathing difficulties if inhaled.</td>
</tr>
<tr>
<td>Sensitization - Skin</td>
<td>1  May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Specific Target Organ Toxicity (single exposure)</td>
<td>3  May cause respiratory irritation.</td>
</tr>
<tr>
<td>Oxidizing Solids</td>
<td>3  May intensify fire; oxidizer.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal Word:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danger</td>
</tr>
</tbody>
</table>

Precautionary Statements

<table>
<thead>
<tr>
<th>Prevention:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keep away from heat.</td>
</tr>
<tr>
<td>Keep and store away from clothing, combustible materials.</td>
</tr>
<tr>
<td>Take any precaution to avoid mixing with combustibles.</td>
</tr>
<tr>
<td>Avoid breathing dust, fume, gas, mist, vapors, spray.</td>
</tr>
<tr>
<td>Wash thoroughly after handling.</td>
</tr>
<tr>
<td>Do not eat, drink or smoke when using this product.</td>
</tr>
<tr>
<td>Use only outdoors or in a well-ventilated area.</td>
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<tr>
<td>Contaminated work clothing must not be allowed out of the workplace.</td>
</tr>
<tr>
<td>Wear protective gloves, eye protection, face protection.</td>
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<tr>
<td>Wear respiratory protection.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Response</th>
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<tbody>
<tr>
<td>If swallowed: Call a poison center, doctor if you feel unwell.</td>
</tr>
<tr>
<td>If on skin: Wash with plenty of water.</td>
</tr>
<tr>
<td>If inhaled: Remove person to fresh air and keep comfortable for breathing.</td>
</tr>
<tr>
<td>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td>
</tr>
<tr>
<td>Call a poison center, doctor if you feel unwell.</td>
</tr>
<tr>
<td>Specific treatment (see first aid section on this label)</td>
</tr>
<tr>
<td>Rinse mouth.</td>
</tr>
<tr>
<td>If skin irritation or a rash occurs: Get medical advice, attention.</td>
</tr>
<tr>
<td>If eye irritation persists: Get medical advice, attention.</td>
</tr>
<tr>
<td>If experiencing respiratory symptoms: Call a poison center, doctor.</td>
</tr>
<tr>
<td>Take off contaminated clothing and wash it before reuse.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Store in a well ventilated place. Keep container tightly closed.</td>
</tr>
<tr>
<td>Store locked up.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose of contents, container in accordance with all governmental regulations.</td>
</tr>
</tbody>
</table>

3. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA SDS #: 26447 rev 101  3/27/2015  SODIUM PERSULFATE
### Component

**Sodium persulfate**

**Synonyms**

Disodium peroxodisulphate

**CAS #**

07775-27-1

**% Weight**

100

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#### 4. FIRST AID MEASURES

- **Inhalation:** Call a poison center, doctor if you feel unwell.
- **Eye Contact:** Remove person to fresh air and keep comfortable for breathing.
- **Skin Contact:** Wash with soap and water. Seek medical attention if irritation develops.
- **Ingestion:** Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
- **Additional notes:** Symptoms and effects include skin, eye, respiratory irritation; allergy or asthma symptoms; allergic skin reaction; skin, respiratory sensitization;

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#### 5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Water in flooding quantities. Do not use carbon dioxide, dry chemical or foam.
- **Special Equipment and Precautions:** Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
- **Specific Hazards:** Strong oxidizer. Contact with combustible or flammable materials can cause fire or explosion.

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#### 6. ACCIDENTAL RELEASE MEASURES

- **Spill Procedures:** Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into clean, dry disposal container. Flush spill area with water.

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#### 7. HANDLING AND STORAGE

- **Incompatible Materials:** Incompatible with strong acids. Alkalis, halides, reducing agents, heavy metals and moisture.
- **Storage and Handling:** Store in a cool, dry, well-ventilated area dedicated to the storage of oxidizers. Keep away from incompatible materials, especially flammable and organic compounds. Keep containers tightly closed and protect them from physical damage. Material slowly decomposes in contact with moisture. Store well sealed and dry.
- **Flammability:** Not available
- **Upper Limits (% by volume in air):** Not available
- **Lower Limits (% by volume in air):** Not available
- **Evaporation Rate:** Not available
- **Flammability:** Not available
- **Solubility:** 43% in water @25°C

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#### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **OSHA & ACGIH Exposure Limits:**
  - Sodium persulfate: ACGIH TWA: 0.1 mg/m³ (as persulfate)

- **Engineering Controls:** Use general or local exhaust ventilation to meet TLV and PEL requirements.
- **Respiratory Protection:** Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved full facepiece respirator with a particulate filter.
- **Skin/Eye Protective Equipment:** Safety goggles, protective clothing and gloves appropriate for the risk of exposure.
- **Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.**

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** White crystals.
- **Odor:** Not available
- **Odor Threshold:** Not available
- **pH:** Not available
- **Melting/Freezing Point:** Decomposes
- **Initial Boiling Point and Boiling Range:** Not available
- **Flash Point:** Not available
- **Evaporation Rate:** Not available
- **Flammability:** Not available
- **Flammable or Explosive:** Upper: Not available
- **Limits (% by volume in air):** Lower: Not available
- **Vapor Pressure:** Not available
- **Vapor Density:** Not available
- **Relative Density:** 2.6 Water=1
- **Solubility:** 43% in water @25°C
Partition Coefficient: n-octanol/water  Not available
Auto-Ignition Temperature:  Not available
Decomposition Temperature:  Not available
Viscosity:  Not available

10. STABILITY AND REACTIVITY
Reactivity:  No information available
Stability:  Stable
Possibility of Hazardous Reactions:  Hazardous polymerization will not occur
Conditions to Avoid:  Heat and moisture. Contact with organic compounds.
Incompatibles:  Incompatible with strong acids, alkalis, halides, reducing agents, heavy metals and moisture.
Decomposition Products:  Oxides of nitrogen, oxides of sulfur, oxygen.

11. TOXICOLOGICAL INFORMATION
Effects of Over Exposure:
Inhalation:  Harmful if inhaled. Irritating to the upper respiratory tract and mucous membranes.
Skin Contact:  May cause skin irritation. Prolonged contact may cause dermatitis.
Eye Contact:  Contact may be irritating to the eyes.
Ingestion:  May be harmful if swallowed.
Chronic Effects:  May cause skin or respiratory sensitization; dermatitis; allergy or asthma symptoms.
Target Organs:  None identified
Additional Effects:  None identified
Reproductive Effects:  None identified
Carcinogenicity:  None identified

Toxicity Data:
Sodium persulfate  LC50 (inhalation, rat)  >5.1 mg/L 4H
LD50 (oral, rat)  895 mg/kg

12. ECOLOGICAL INFORMATION
Sodium persulfate  LC50 Oncorhynchus mykiss:  163 mg/L - 9  No information available

Aquatic Toxicity Data:
Sodium persulfate  LC50 (oral, rat)  895 mg/kg

Terrestrial Toxicity Data:
Persistence and degradability:  No information available
Bioaccumulative potential:  Bioaccumulation is unlikely
Mobility in soil:  No information available
Other adverse effects:  No information available

13. DISPOSAL CONSIDERATIONS
Disposal Procedures:  Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION
This product is a regulated material for domestic ground transporation, per CFR Title 49.

UN Number:  UN1505
Proper Shipping Name:  Sodium persulfate
Packing Group:  III
Hazard Class:  5.1
Environmental hazards:  No information available
Special precautions:  No information available
Bulk transport:  No information available

15. REGULATORY INFORMATION
Sodium persulfate is listed in the TSCA inventory.

16. OTHER INFORMATION
OSHA SDS #:  26447 rev 101  3/27/2015

The information presented above is offered for informational purposes only. This SDS, and the associated product, is intended for use only by technically qualified persons, and at their own discretion and risk. Since conditions and manner of use are outside the control of Integra Chemical Company, we make no warranties, either expressed or implied, and assume no liability in connection with any use of this information.

***** END OF SDS *****