### SAFETY DATA SHEET: HYDRAZINE SULFATE

**1. IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product Name:</th>
<th>HYDRAZINE SULFATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms:</td>
<td>Hydrazinium sulfate; Hydrazine monosulfate</td>
</tr>
<tr>
<td>Formula and Formula Weight:</td>
<td>(NH2)2 H2SO4  130.12</td>
</tr>
<tr>
<td>Integra numbers beginning with:</td>
<td>H608.10</td>
</tr>
<tr>
<td>Recommended Use:</td>
<td>Commercial/industrial use</td>
</tr>
<tr>
<td>Restrictions on Use:</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>OSHA Classification:</th>
<th>Hazard Category:</th>
<th>Hazard Statement:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity - Oral</td>
<td>3</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>Acute Toxicity - Dermal</td>
<td>3</td>
<td>Toxic in contact with skin.</td>
</tr>
<tr>
<td>Acute Toxicity - Inhalation</td>
<td>2</td>
<td>Fatal if inhaled.</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>2</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Eye Damage/Irritation</td>
<td>2A</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Sensitization - Skin</td>
<td>1</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>1B</td>
<td>May cause cancer.</td>
</tr>
</tbody>
</table>

**Signal Word:** Danger

**Precautionary Statements**

**Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust, fume, gas, mist, vapors, spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye protection, face protection.  
Wear respiratory protection.

**Response**

If swallowed:  
Immediately call a poison center, doctor  
If on skin: Wash with plenty of water  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If exposed or concerned: Get medical advice, attention.  
Immediately call a poison center, doctor  
Specific treatment (see first aid section on this label)  
Rinse mouth.  
If skin irritation or a rash occurs: Get medical advice, attention.  
If eye irritation persists: Get medical advice, attention.  
Take off immediately all contaminated clothing and wash it before reuse.

**Storage**

Store in a well ventilated place. Keep container tightly closed.  
Store locked up.

**Disposal**

Dispose of contents, container in accordance with all governmental regulations.

**Hazards Not Otherwise Classified:** No information available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
</table>

OSHA SDS #: 25721 rev 101  3/27/2015  HYDRAZINE SULFATE
4. FIRST AID MEASURES

Inhalation: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek immediate medical attention.

Skin Contact: Immediately remove contaminated clothing. Flush skin with water for at least 15 minutes. Seek immediate medical attention.

Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional notes: Fatal if inhaled. Toxic if swallowed or in contact with skin. Symptoms and effects include serious skin and eye irritation; allergic skin reaction; destructive to mucous membranes and upper respiratory tract; cough, shortness of breath, headache, nausea, vomiting, gastrointestinal irritation; suspected occupational carcinogen.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water spray, 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. May be fatal if inhaled.

Specific Hazards: Fire conditions may liberate toxic and noxious fumes.


6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into disposal container in a manner that minimizes dust dispersion. Do not let material enter drains. Do not allow release to environment.

7. HANDLING AND STORAGE

Incompatible Materials: Incompatible with strong acids, strong bases, strong oxidizers. Metals and metal oxides.

Storage and Handling: Store locked up in a cool, dry, well-ventilated corrosive materials storage area away from incompatible materials. Keep containers tightly closed and protect them from physical damage. Minimize exposure to air and light. Store in a toxic materials storage area.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust, fume, gas, mist, vapors, spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves, protective clothing, eye protection, face protection.

Wear respiratory protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

OSHA & ACGIH Exposure Limits:

Hydrazine sulfate: None identified

Engineering Controls: Use adequate general or local exhaust ventilation to keep fume and/or dust levels as low as possible.

Respiratory Protection: A NIOSH approved respirator should be worn at all times. Use a full-facepiece, air-purifying respiratory with a high-efficiency particulate filter as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White, crystalline powder, glass-like plates or prisms

Odor: Not available

Odor Threshold: Not available

pH: 1.3 for a 0.2 M aqueous solution

Melting/Freezing Point: 254 °C

Initial Boiling Point and Boiling Range: Not available

Flash Point: Not available

Evaporation Rate: Not available

Flammability: Not available

Flammable or Explosive Limits (% by volume in air) Upper: Not available

Vapor Pressure: Not available

Vapor Density: Not available
Relative Density: 1.38 g/cc
Solubility: Soluble in 33 parts water; freely soluble in hot water
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, sparks and open flame. Can violently decompose at elevated temperatures.
Incompatibles: Incompatible with strong acids, strong bases, strong oxidizers. Metals and metal oxides.

11. TOXICOLOGICAL INFORMATION
Effects of Over Exposure:
Inhalation: Harmful or fatal if inhaled Irritating to the nose and throat and respiratory system. Destructive to mucous membranes. May cause coughing, difficulty in breathing, chest pains, dizziness, headache, nausea, vomiting, trembling, convulsions.
Skin Contact: Contact may cause irritation or burns. May be absorbed through the skin with symptoms paralleling ingestion. May cause allergic reaction in some individuals.
Eye Contact: Contact may burn or damage the eyes.
Ingestion: Harmful if swallowed. Ingestion may cause nausea, vomiting and gastrointestinal irritation.
Chronic Effects: May effect the skin, liver, kidneys and blood.
Target Organs: No information available
Additional Effects: May aggravate pre-existing skin disorders, eye disorders, respiratory system disease, impaired kidney, liver or blood functions.
Reproductive Effects: No information available
Carcinogenicity:

Toxicity Data:
Hydrazine sulfate LD50 (oral, rat) 601 mg/kg

12. ECOLOGICAL INFORMATION
Aquatic Toxicity Data: Terrestrial Toxicity Data:
Hydrazine sulfate No information available No information available
Persistence and degradability: No information available
Bioaccumulative potential: No information available
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 transportation, per CFR Title 49.

UN Number: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, nos (hydrazine sulfate)
Packing Group: III
Hazard Class: 8
Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION
Hydrazine sulfate is listed in the TSCA inventory and in SARA 313.

16. OTHER INFORMATION
OSHA SDS #: 25721 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available
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***** END OF SDS *****