# Material Safety Data Sheet

### Section 1. Product and Company Identification

**Product Name:** Sodium Sulfate, Anhydrous, Granular, GR  
**Manufacturer:** EM Science  
**Address:** A Division of EM Industries  
**P.O. Box 70**  
**480 Democrat Road**  
**Gibbstown, N.J. 08027**  
**Product Code:** SX0760  
**Effective Date:** 10/29/2001

**For More Information Call**  
856-423-6300 Technical Service  
Monday-Friday: 8:00 AM - 5:00 PM

**In Case of Emergency Call**  
800-424-9300 CHEMTREC (USA)  
613-996-6666 CANUTEC (Canada)  
24 Hours/Day: 7 Days/Week

**Synonym**  
SALT CAKE; DISODIUM SULFATE

**Material Uses**  
Analytical reagent.

**Chemical Family**  
Inorganic salt.

### Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM SULFATE</td>
<td>7757-82-6</td>
<td>100</td>
</tr>
</tbody>
</table>

### Section 3. Hazards Identification

**Physical State and Appearance**  
Solid. (Crystalline granules solid. Powdered solid.)

**Emergency Overview**  
CAUTION!  
MAY BE HARMFUL IF SWALLOWED.  
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

**Routes of Entry**  
Inhalation. Ingestion.

**Potential Acute Health Effects**

- **Eyes:** May be hazardous in case of eye contact (irritant).
- **Skin:** May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.
- **Inhalation:** May be hazardous in case of inhalation (lung irritant).
- **Ingestion:** May be hazardous in case of ingestion.

**Potential Chronic Health Effects**
This material is not known to cause cancer in animals or humans.

**Carcinogenic Effects**
Additional information See Toxicological Information (section 11)

**Medical Conditions Aggravated by Overexposure:**
Repeated or prolonged exposure is not known to aggravate medical condition.

### Section 4. First Aid Measures

**Eye Contact**
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

**Skin Contact**
In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Inhalation**
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion**
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

### Section 5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Flammability of the Product</th>
<th>Non-flammable.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flash Points</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Products of Combustion</td>
<td>Not available.</td>
</tr>
<tr>
<td>Fire Hazards in Presence of Various Substances</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

**Explosion Hazards in Presence of Various Substances**
Risks of explosion of the product in presence of static discharge: No.
### Section 6. Accidental Release Measures

**Small Spill and Leak**
Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill and Leak**
Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evaporate through the sanitary system.

**Spill Kit Information**
No specific spill kit required for this product.

### Section 7. Handling and Storage

**Handling**
Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing dust. Keep container closed.

**Storage**
Keep container in a cool, well-ventilated area.

### Section 8. Exposure Controls/Personal Protection

**Engineering Controls**
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**
- **Eyes** Splash goggles.
- **Body** Lab coat.
- **Respiratory** Dust respirator. Be sure to use an approved/certified respirator or equivalent.
- **Hands** Gloves.
- **Feet** Not applicable.

**Personal Protection in Case of a Large Spill**
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM SULFATE</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Not available.</td>
</tr>
<tr>
<td>Color</td>
<td>White.</td>
</tr>
<tr>
<td>Physical State and Appearance</td>
<td>Solid. (Crystalline granules solid. Powdered solid.)</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>142.04 g/mole</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>O4-S-2Na.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling/Condensation Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>887.9°C (1630.2°F)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>LogKow</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water.</td>
</tr>
</tbody>
</table>

### Section 10. Stability and Reactivity

**Stability and Reactivity**
The product is stable.

**Conditions of Instability**
Not available.

**Incompatibility with Various Substances**
Not available.

**Rem/Incompatibility**
Not available.

**Hazardous Decomposition**
Not available.

**Products**

### Section 11. Toxicological Information
Section 12. Ecological Information
Ecotoxicity
BOD5 and COD
Toxicity of the Products of Biodegradation
Not available.
Not available.
The products of degradation are less toxic than the product itself.

Section 13. Disposal Considerations
EPA Waste Number
Treatment
Not available.
Material does not have an EPA Waste Number and is not a listed waste, however consultation with a permitted waste disposal site (TSD) should be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information
DOT Classification
TDG Classification
IMO/IMDG Classification
ICAO/IATA Classification
Not available.
Not available.
Not available.
Not available.

Section 15. Regulatory Information
U.S. Federal Regulations
TSCA 8(b) inventory: SODIUM SULFATE
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: SODIUM SULFATE
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: SODIUM SULFATE: Delayed (Chronic) Health Hazard
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.
WHMIS (Canada)
Not controlled under WHMIS (Canada).
CEPA DSL: SODIUM SULFATE
International Regulations
EINECS
DSCL (EEC)
International Lists
SODIUM SULFATE 231-820-9
R36/37/38- Irritating to eyes, respiratory system and skin.
Australia (NICNAS): SODIUM SULFATE
Japan (MITI): SODIUM SULFATE
Korea (TCCL): SODIUM SULFATE
Philippines (RA9699): SODIUM SULFATE
State Regulations
Pennsylvania RTK: SODIUM SULFATE: (environmental hazard, generic environmental hazard)
Massachusetts RTK: SODIUM SULFATE
California prop. 65: No products were found.

Section 16. Other Information
Notice to Reader
The statements contained herein are based upon technical data that EM Industries believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EM INDUSTRIES MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREFIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.