S5018 -03  
Effective: 03/09/92  

Sodium Sulfate  

J.T. BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865  

SECTION I - PRODUCT IDENTIFICATION  

Product Name: Sodium Sulfate  
Common Synonyms: Sulfuric Acid, Disodium Salt; Disodium Sulfate  
Chemical Family: Inorganic Sodium Compounds  
Formula: \( \text{Na}_2\text{SO}_4 \)  
Formula Wt.: 142.04  
CAS No.: 7757-82-6  
NIOSH/RTCS No.: WE1650000  
Product Use: Laboratory Reagent  
Product Codes: 3891, 3898, 3375, 5059, 3887, 3902  

PRECAUTIONARY LABELING  

BAKER SAF-T-DATA* System  

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>CONTACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
<td>SLIGHT</td>
</tr>
</tbody>
</table>

Laboratory Protective Equipment  

- GOGGLES  
- LAB COAT  

U.S. Precautionary Labeling  

CAUTION!  
MAY CAUSE IRRITATION. MAY BE HARMFUL IF SWALLOWED OR INHALED.  
During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.
S5018 -03
Effective: 03/09/92

Sodium Sulfate

PRECAUTIONARY LABELING (CONTINUED)

International Labeling

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SAF-T-DATA* Storage Color Code: Orange (general storage)

SECTION II - COMPONENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Sulfate</td>
<td>7757-82-6</td>
<td>90-100</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

SECTION III - PHYSICAL DATA

- Boiling Point: N/A
- Melting Point: 884°C (1623°F)
  (at 760 mm Hg)
- Specific Gravity: 2.68
  (H₂O=1)
- Solubility(H₂O): Appreciable (>10%)
- pH: N/A
- Odor Threshold (ppm): N/A
- Coefficient Water/Oil Distribution: N/A
- Appearance & Odor: White crystals or powder. Odorless.
S5018 -03
Effective: 03/09/92

Sodium Sulfate

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A
Autoignition Temperature: N/A
Flammable Limits: Upper - N/A  Lower - N/A

Fire Extinguishing Media
Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards
None identified.

Toxic Gases Produced
sulfur dioxide

Explosion Data-Sensitivity to Mechanical Impact
None identified.

Explosion Data-Sensitivity to Static Discharge
None identified.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): Not Established
Short-Term Exposure Limit (STEL): Not Established
Permissible Exposure Limit (PEL): Not Established

Toxicity of components

Oral Mouse LD$_{50}$ for Sodium Sulfate
5989 mg/kg

Carcinogenicity: NTP: No  IARC: No  Z List: No  OSHA Reg: No

Carcinogenicity
None identified.
Sodium Sulfate

Reproductive Effects
None identified.

Effects of Overexposure

INHALATION: irritation of upper respiratory tract
SKIN CONTACT: irritation
EYE CONTACT: irritation
SKIN ABSORPTION: none identified
INGESTION: gastrointestinal irritation
CHRONIC EFFECTS: none identified

Target Organs
respiratory system, lungs

Medical Conditions Generally Aggravated by Exposure
none identified

Primary Routes of Entry
inhalation, ingestion, skin contact, eye contact

Emergency and First Aid Procedures

INGESTION: If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

INHALATION: If a person breathes in large amounts, move the exposed person to fresh air.

SKIN CONTACT: In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.

EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

SARA/TITLE III HAZARD CATEGORIES and LISTS
Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No