C4367 - 03 Chromium Potassium Sulfate, 12-Hydrate
Effective: 03/09/92

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

SECTION I - PRODUCT IDENTIFICATION

Product Name: Chromium Potassium Sulfate, 12-Hydrate
Common Synonyms: Chromium (III) Potassium Sulfate, Dodecahydrate; Chrome Alum
Chemical Family: Chromium Compounds
Formula: CrK(SO₄)₂·12H₂O
Formula Wt.: 499.41
CAS No.: 7788-99-0
NIOSH/RTECS No.: GB6045000
Product Use: Laboratory Reagent
Product Codes: 1624

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>MODERATE</td>
<td>NONE</td>
<td>NONE</td>
<td>SLIGHT</td>
</tr>
</tbody>
</table>

Laboratory Protective Equipment

- GOGGLES
- LAB COAT

U.S. Precautionary Labeling

WARNING!

HARMFUL IF SWALLOWED. CAUSES IRRITATION.
Avoid contact with eyes, skin, clothing. Keep in tightly closed container.
Wash thoroughly after handling.

Continued on Page: 2

0020
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>Chromium Potassium Sulfate</td>
<td>7788-99-0</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: 89°C (192°F)
(at 760 mm Hg)

Specific Gravity: 1.81
(H₂O=1)

Solubility(H₂O): Appreciable (>10%)

pH: N/A

Odor Threshold (ppm): N/A

Coefficient Water/Oil Distribution: N/A

Appearance & Odor: Dark red-violet crystals.
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): 0.5 mg/m³
Short-Term Exposure Limit (STEL): Not Established
Permissible Exposure Limit (PEL): 0.5 mg/m³

Toxicity of components

Intravenous Rat LD₅₀ for Chromium Potassium Sulfate 112 mg/kg
Carcinogenicity: NTP: Yes IARC: Yes Z List: No OSHA Reg: No

Carcinogenicity
Studies indicate Chromium (III) Oxide is not carcinogenic. The National Toxicity Program (NTP) lists "chromium and certain chromium compounds" as substances known to be carcinogens. NOTE: Specific chromium compounds and Continued on Page: 4
C4367 - 03  Chromium Potassium Sulfate, 12-Hydrate
Effective: 03/09/92

SECTION V - HEALTH HAZARD DATA (CONTINUED)

Levels cannot be identified. This product may contain low levels of hexavalent chromium which is carcinogenic.

Reproductive Effects
None identified.

Effects of Overexposure

INHALATION: none identified
SKIN CONTACT: irritation
EYE CONTACT: irritation
SKIN ABSORPTION: none identified
INGESTION: none identified
CHRONIC EFFECTS: none identified

Target Organs
Skin

Medical Conditions Generally Aggravated by Exposure
None identified

Primary Routes of Entry
Ingestion, skin contact, eye contact

Emergency and First Aid Procedures

INGESTION: CALL A PHYSICIAN. If swallowed, if conscious, immediately induce vomiting.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

SKIN CONTACT: In case of contact, flush skin with water.

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

Continued on Page: 5
C4367 - 03 Chromium Potassium Sulfate, 12-Hydrate
Effective: 03/09/92

Section V - Health Hazard Data (Continued)

Extremely Hazardous Substance: No
CERCLA Hazardous Substance: Yes Contains Chromium (RQ = 1 LB)
SARA 313 Toxic Chemicals: Yes Contains Chromium
Generic Class: Generic Class Removed from CFR: 7/1/91
TSCA Inventory: Yes
State Lists: For products sold in the state of California, the state requires that we provide to users and their employees the following message: WARNING: THIS PRODUCT IS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Section VI - Reactivity Data

Stability: Stable Hazardous Polymerization: Will not occur
Conditions to Avoid: heat, flame, other sources of ignition
Incompatibles: aluminum, magnesium
Decomposition Products: oxides of sulfur

Section VII - Spill & Disposal Procedures

Steps to be Taken in the Event of a Spill or Discharge
Wear self-contained breathing apparatus and full protective clothing. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure
Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: D007 (EP Toxic Waste)

Section VIII - Industrial Protective Equipment

Ventilation: Use general or local exhaust ventilation to meet TLV requirements.
Respiratory Protection: A respirator with dust/mist filter is recommended. If airborne concentration exceeds TLV, a self-contained breathing apparatus is advised.

Continued on Page: 6
C4367 - 03  Chromium Potassium Sulfate, 12-Hydrate
Effective: 03/09/92

Section VIII - Industrial Protective Equipment (Continued)

Eye/Skin Protection: Safety goggles, rubber gloves are recommended.

Section IX - Storage and Handling Precautions

Saf-T-Data* Storage Color Code: Orange (general storage)

Storage Requirements
Keep container tightly closed. Suitable for any general chemical storage area.

Section X - Transportation Data and Additional Information

Domestic (D.O.T.)
Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)

International (I.M.O.)
Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)
Marine Pollutants: No

AIR (I.C.A.O.)
Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)
U.S. Customs Harmonization Number: 283329000006

N/A = Not Applicable or Not Available
N/E = Not Established

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and

Continued on Page: 7
face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.
Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label.
BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.
The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.
Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.

---
COPYRIGHT 1993 J.T.BAKER INC.
* TRADEMARKS OF J.T.BAKER INC.
---
Approved by Quality Assurance Department.