Sodium Oxalate

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

SECTION I - PRODUCT IDENTIFICATION

Product Name: Sodium Oxalate
Common Synonyms: Oxalic Acid, Disodium Salt; Ethanedioic Acid, Disodium Salt
Chemical Family: Organic Sodium Salts
Formula: NaOCOCOONa
Formula Wt.: 134.00
CAS No.: 62-76-0
NIOSH/RTECS No.: KI1750000
Product Use: Laboratory Reagent
Product Codes: 3800, 3801

PRECAUTIONARY LABELING

BAKER SAF-T-DATA* System

HEALTH FLAMMABILITY REACTIVITY CONTACT
3 0 1 3
SEVERE NONE SLIGHT SEVERE

Laboratory Protective Equipment

GOGGLES LAB COAT VENT HOOD PROPER GLOVES

U.S. Precautionary Labeling

POISON! DANGER!
CAUSES BURNS. HARMFUL IF INHALED. MAY BE FATAL IF SWALLOWED.
Do not get in eyes, on skin, on clothing. Avoid breathing dust. Keep in
tightly closed container. Use with adequate ventilation. Wash thoroughly
after handling.

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**International Labeling**

Harmful in contact with skin and if swallowed.
Keep out of reach of children. Avoid contact with skin and eyes.

SNF-T-DATA* Storage Color Code: White (corrosive)

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**SECTION II - COMPONENTS**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight %</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Oxalate</td>
<td>62-76-0</td>
<td>99-100</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

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**SECTION III - PHYSICAL DATA**

- Boiling Point: N/A
- Vapor Pressure (mmHg): N/A
- Melting Point: 260°C (500°F)
- DECOMPOSES
- Vapor Density (air=1): N/A
- Specfic Gravity: 2.34 (H2O=1)
- Evaporation Rate: N/A
- Solubility(H2O): Moderate (1-10%)
- % Volatiles by Volume: 0 (21°C)
- pH: N/A
- Odor Threshold (ppm): N/A
- Physical State: Solid
- Coefficient Water/Oil Distribution: N/A
- Appearance & Odor: White crystalline powder, Odorless.

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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
NOTE: Decomposes at melting point.

Toxic Gases Produced
carbon monoxide, carbon 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

No information is available
Carcinogenicity: NTP: No IARC: No Z List: No OSHA Reg: No

Carcinogenicity
None identified.
SECTION V - HEALTH HAZARD DATA (CONTINUED)

Reproductive Effects
None identified.

Effects of Overexposure

INHALATION: irritation of upper respiratory tract

SKIN CONTACT: severe irritation or burns

EYE CONTACT: severe irritation or burns

SKIN ABSORPTION: none identified

INGESTION: is harmful and may be fatal, nausea, vomiting, unconsciousness, irritation and burns to mouth and stomach

CHRONIC EFFECTS: kidney damage

Target Organs
eyes, skin, kidneys

Medical Conditions Generally Aggravated by Exposure
none identified

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

Emergency and First Aid Procedures

INGESTION: CALL A PHYSICIAN. If swallowed, if conscious, give lime water, large amount of powdered chalk in water, or milk. Then 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, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use.

EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.
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--- SECTION V - HEALTH HAZARD DATA (CONTINUED) ---

SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No

Extremely Hazardous Substance: No
CERCLA Hazardous Substance: No
SARA 313 Toxic Chemicals: No
TSCA Inventory: Yes

--- SECTION VI - REACTIVITY DATA ---

Stability: Stable
Hazardous Polymerization: Will not occur

Conditions to Avoid: none documented

Incompatibles: strong acids

Decomposition Products: carbon monoxide, carbon dioxide

--- 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: D002 (Corrosive Waste)

--- SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT ---

Ventilation:

Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.

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SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT (CONTINUED)

Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.

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

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA* Storage Color Code: White (corrosive)

Storage Requirements
Keep container tightly closed. Store in corrosion-proof area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)
Proper Shipping Name: Oxalates, water soluble (Sodium Oxalate)
Hazard Class: 6.1
UN/NA: UN2449
Labels: KEEP AWAY FROM FOOD
Regulatory References: 49CFR 172.101

Packaging Group: III

International (I.M.O.)
Proper Shipping Name: Oxalates, water soluble (Sodium Oxalate)
Hazard Class: 6.1
UN: UN2449
Marine Pollutants: No
Labels: HARMFUL - STOW AWAY FROM FOOD STUFFS
Regulatory References: 49CFR 172.12(b); IMDG Code

Packaging Group: III

AIR (I.C.A.O.)
Proper Shipping Name: Oxalates, water soluble (Sodium Oxalate)
Hazard Class: 6.1
UN: UN2449
Labels: KEEP AWAY FROM FOOD
Regulatory References: 49CFR 172.101; ICAO We believe the transportation data and references contained herein to be factual and the opinion of qualified experts. The data is meant as a guide to the overall classification of the product.

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SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION (CONTINUED)

and is not package size specific, nor should it be taken as a warranty or representation for which the company assumes legal responsibility. The information is offered solely for your consideration, investigation, and verification. Any use of the information must be determined by the user to be in accordance with applicable Federal, State, and Local laws and regulations. See shipper requirements 49CFR 172.3 and employee training 49CFR 173.1.

U.S. Customs Harmonization Number: 29171100005

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 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.