SAFETY DATA SHEET

Product code: C1140
Product Name: CALCIUM OXIDE, POWDER, REAGENT

Other means of identification
Synonyms:
- Airlock
- Bell CML(E)
- Bell CML(P)
- Burnt lime
- CALX
- CML 21
- CML 31
- CML 35
- Calcia
- Calcia (CaO)
- Calcium monoxide
- Calcium oxide
- Calcium oxide (CaO)
- Caloxal CPA
- Caloxol CP2
- Caloxol W3
- Calx usta
- Calxyl
- Chaux vive
- Desical P
- Gebrannter kalk
- Lime, burned
- Oxyde de calcium [French]
- QC-X
- Quick lime
- Quicklime
- Rhenosorb C
- Rhenosorb F
- Unslaked lime
- Vesta PP
- Wapniowy tlenek [Polish]

CAS #: 1305-78-8
RTECS #: EW3100000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Building material (in bricks, plaster, mortar, stucco); mfr aluminum, magnesium; dehairing hides; mfr glass, flotation of non-ferrous ores; mfr calcium salts and other industrial chemicals; lab: to absorb carbon dioxide; in fungicides, insecticides, drilling fluids, lubricants; clarification of cane and beet sugar juices; metal processing; agriculture and sewage treatment; in making chlorinated lime; dehydrating agent; sulfur dioxide removal from stack gases; in poultry feeds; nutrient and/or dietary supplement food additive; ground consolidation; pH control (ore/chemical processing: bauxite processing agent.

Uses advised against: No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number: Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
Harmful if swallowed
Causes severe skin burns and eye damage
May cause respiratory irritation

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards

Product code: C1140
Product name: CALCIUM OXIDE, POWDER, REAGENT
Reacts with water to evolve heat

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
Specific treatment (see .? on this label)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth
Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Oxide</td>
<td>1305-78-8</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice:
Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Skin Contact:
Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact:
Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation:
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Immediate medical attention is required.

Ingestion:
Harmful if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required.
Most important symptoms and effects, both acute and delayed

Symptoms
Corrosive. Severe skin and eye irritation or burns. Skin contact can produce inflammation and blistering. Skin contact may result in redness, pain, inflammation, itching, scaling. Severe eye irritation. May cause corneal injury. May cause blindness. Inflammation of the eye is characterized by redness, watering and itching. Inhalation of dust will produce irritation to gastrointestinal or respiratory tract, characterized by burning, sneezing, and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death. Over-exposure by inhalation may cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: Halogenated extinguishing agents. CO2.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: Non-combustible
Chlorine trifluoride reacts violently with calcium oxide producing flame
Reacts with water to evolve heat and poisonous and corrosive gases

Special Protective Actions for Firefighters

Specific Methods: For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Avoid breathing dust. Avoid dust formation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover powder spill with plastic sheet or tarp to minimize spreading.

Methods for cleaning up Neutralize the residue with a dilute solution of acetic acid. Use appropriate tools to put the spilled solid in a suitable waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not breathe vapours/dust. Do not ingest. Do not smoke. Never add water to this product. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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Canada

<table>
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<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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<td>= 2 mg/m³ TWA</td>
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</table>

Australia and Mexico

Product code: C1140  Product name: CALCIUM OXIDE, POWDER, REAGENT
Components Australia Mexico
Calcium Oxide None = 2 mg/m³ TWA
1305-78-8

Appropriate engineering controls

Engineering measures to reduce exposure: 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.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles

Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.

Respiratory protection: Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES
9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid.

**Odor:** Odorless.

**Formula:** CaO

**Flashpoint (°C/°F):** No information available.

**Upper Explosion Limit (%):** No information available

**Bulk density:** No information available

**Density (g/cm³):** No information available

**VOC content (g/L):** No information available

**Viscosity:** No information available

**Appearance:** Powder.

**Taste:** No information available

**Flammability:** Non-flammable

**Flash Point Tested according to:** Not available

**Autoignition Temperature (°C/°F):** No information available

**Boiling point/range(°C/°F):** 2850°C/ 5162°F

**Specific gravity:** 3.33

**Evaporation rate:** No information available

**Odor threshold (ppm):** No information available

**Miscibility:** No information available

**Color:** White.

**Molecular/Formula weight:** 56.08

**Flash point (°C):** No data available

**Lower Explosion Limit (%):** No information available

**pH:** 12.5-12.8 (1.65 g/L aq sol.)

**Decomposition temperature(°C/°F):** No information available

**Vapor pressure @ 20°C (kPa):** No information available

**Vapor density:** No information available

**Partition coefficient (n-octanol/water):** No information available

**Solubility:**
- Soluble in acids
- Soluble in Glycerol
- Soluble in sugar solution
- Practically insoluble in alcohol
- Very slightly soluble in cold water
- Very slightly soluble in hot water
- Insoluble in methanol
- Insoluble in diethyl ether
- Insoluble in n-octanol

**Flashpoint Tested according to:** Not available

**Lower Explosion Limit (%):** No information available

**Autoignition Temperature (°C/°F):** No information available

**Boiling point/range(°C/°F):** 2850°C/ 5162°F

**Specific gravity:** 3.33

**Evaporation rate:** No information available

**Odor threshold (ppm):** No information available

**Miscibility:** No information available

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**Vapor pressure @ 20°C (kPa):** No information available

**Vapor density:** No information available

**Partition coefficient (n-octanol/water):** No information available

**Solubility:**
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- Insoluble in methanol
- Insoluble in diethyl ether
- Insoluble in n-octanol

| **Product code:** C1140 | **Product name:** CALCIUM OXIDE, POWDER, REAGENT |
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity

Component Information

Calcium Oxide - 1305-78-8
- LD50/oral/rat = 500 mg/kg Oral LD50 Rat
- LD50/oral/mouse = No information available
- LD50/dermal/rat = No information available
- LD50/dermal/rabbit = No information available
- LC50/inhalation/rat = No information available
- LC50/inhalation/mouse = No information available
- Other LD50 or LC50 information = 3059 mg/kg Intrap. LD50 Mouse

Product Information

- LD50/oral/rat = 
  VALUE - Acute Tox Oral = 500mg/kg
- LD50/oral/mouse = 
  Value - Acute Tox Oral = No information available
- LD50/dermal/rabbit
  VALUE-Acute Tox Dermal = No information available
- LD50/dermal/rat
  VALUE -Acute Tox Dermal = No information available
- LC50/inhalation/rat
  VALUE-Vapor = No information available
  VALUE-Gas = No information available
  VALUE-Dust/Mist = No information available
- LC50/Inhalation/mouse
  VALUE-Vapor = No information available
  VALUE - Gas = No information available
  VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: 
Causes severe skin irritation and possible burns, especially if skin is wet or moist. May cause deep penetrating ulcers of the skin.

Product code: C1140  Product name: CALCIUM OXIDE, POWDER, REAGENT
Eye Contact: Causes severe eye irritation and possible burns. May cause corneal injury. Symptoms may include burning sensation, tearing, redness, blurred vision, inflammation.

Inhalation Material is severely irritating to respiratory tract and mucous membranes and upper respiratory tract. May cause chemical burns to the upper respiratory tract with perforation of the nasal septum. Symptoms may include pain, burning sensation, inflammation, coughing, sneezing, labored breathing. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis, pulomonary edema.

Ingestion May be harmful if swallowed. Irritates gastrointestinal tract with possible burns to the mouth and throat. Swallowing may become painful, and difficult. A burning pain extends down the esophagus to the stomach. May affect respiration. Vomitus is thick and slimy due to mucous. Later is may contain blood shred of mucous membrane due to necrosis.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity Skin: Prolonged or repeated skin contact may cause brittle nails, dermatitis, thickening and cracking of the skin. Inhalation: Prolonged or repeated inhalation may cause nasal septum ulceration and perforation, irritation of the lungs. It may also cause bronchitis to develop with cough, phlegm, and/or shortness of breath.

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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</thead>
<tbody>
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<td>Calcium Oxide</td>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tr>
</tbody>
</table>

Reproductive toxicity No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available

STOT - repeated exposure No information available


12. ECOLOGICAL INFORMATION

Ecotoxicity

Product code: C1140  Product name: CALCIUM OXIDE, POWDER, REAGENT
12. ECOLOGICAL INFORMATION

Ecotoxicity effects:

*Calcium Oxide - 1305-78-8*

**Freshwater Fish Species Data:** 1070 mg/L LC50 *Cyprinus carpio* 96 h static 1

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**Mobility:** No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

**Waste from residues / unused products:**
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Oxide</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

**DOT**

- **UN-No:** UN1910
- **Proper Shipping Name:** Calcium oxide
- **Hazard Class:** 8
- **Subsidiary Risk:**
- **Packing Group:** III
- **ERG No:** 157
- **Marine Pollutant:** No data available
- **DOT RQ (lbs):** No information available
- **Symbol(s):** A

**TDG (Canada)**

- **UN-No:** UN1910
- **Proper Shipping Name:** Calcium oxide
- **Hazard Class:** 8
- **Subsidiary Risk:** No information available
- **Packing Group:** III
- **Description:** No information available

**ADR**

- **UN-No:** UN1910
- **Proper Shipping Name:** Calcium oxide
- **Hazard Class:** 8
- **Packing Group:** No information available
- **Subsidiary Risk:** No information available
14. TRANSPORT INFORMATION

Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN1910
Proper Shipping Name: Calcium oxide
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN1910
Proper Shipping Name: Calcium oxide
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: No information available
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN1910
Proper Shipping Name: Calcium oxide
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

IATA
UN-No: UN1910
Proper Shipping Name: Calcium oxide
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 8L
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
<td>Calcium Oxide</td>
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<td>Present KE-04588</td>
<td>Present</td>
<td>Present (1)-189</td>
<td>Present</td>
<td>Present</td>
<td>Present 215-138-9</td>
</tr>
</tbody>
</table>

U.S. Regulations

Calcium Oxide
Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: 0325
Pennsylvania RTK: Present

Product code: C1140
Product name: CALCIUM OXIDE, POWDER, REAGENT

Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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<tbody>
<tr>
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</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Oxide</td>
<td>None</td>
<td>None</td>
<td>None</td>
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</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Oxide</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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</table>

Canada

WHMIS hazard class:
E  Corrosive material

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
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<tbody>
<tr>
<td>Calcium Oxide</td>
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Inventory

<table>
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<tr>
<th>Components</th>
<th>Canada (DSL)</th>
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<tbody>
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<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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</table>

EU Classification

Product code: C1140  Product name: CALCIUM OXIDE, POWDER, REAGENT
R-phrase(s)
R35 - Causes severe burns.

S -phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits</th>
<th>Safety Phrases</th>
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<tbody>
<tr>
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</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
C - Corrosive.

16. OTHER INFORMATION
Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.