1. IDENTIFICATION

**Product identifier**

- **Product code:** CA140
- **Product Name:** CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP

**Other means of identification**

- **Synonyms:** No information available
- **CAS #:** 10035-04-8
- **RTECS #** EV9810000
- **Cl#:** Not available

**Recommended use of the chemical and restrictions on use**

- **Recommended use:** No information available.
- **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](https://www.spectrumchemical.com)

**Emergency telephone number** Chemtrec 1-800-424-9300

**Contact Person:**
- Martin LaBenz (West Coast)
- Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

**Classification**

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Oral</td>
<td>Category 4</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

**Label elements**

**Warning**

**Hazard statements**

- Harmful if swallowed
- Causes serious eye irritation
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Exothermic reaction with water
Dissolves in water releasing heat
May be harmful in contact with skin
Causes mild skin irritation

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear eye/face protection

Precautionary Statements - Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If swallowed: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

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>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Chloride, Dihydrate</td>
<td>10035-04-8</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice:
National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. First aider needs to protect himself. 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 removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact:
Flush eyes with water for 15 minutes. Get medical attention.

Inhalation:
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed
Symptoms

Irritating to eyes
Irritating to respiratory system
Causes digestive (gastrointestinal) tract irritation
Nausea
Vomiting
Central nervous system effects
Drowsiness
Convulsions
May affect the cardiovascular system
Cardiac arrhythmias

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: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: The substance itself does not burn, but may decompose upon heating. This material is an inorganic dust/powder and will not create nor support conditions that would result in a dust explosion or fire. When heated to decomposition it emits toxic fumes. Poisonous gases are produced in fire including chlorine.

Special Protective Actions for Firefighters

Specific Methods: No information available.

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. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent from entering into soil, ditches, sewers, waterways, and/or ground water.

**Methods and material for containment and cleaning up**

**Methods for containment**
Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up**
Sweep up and shovel into suitable containers for disposal. Avoid creating dust. 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 ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Technical Measures/Storage Conditions:**
Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**
- Zinc
- Metals
- Oxidizing agents
- Acids

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**National occupational exposure limits**

**United States**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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**Canada**

<table>
<thead>
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<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
<th>Canada - British</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<th>Value</th>
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<td>Solid</td>
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<tr>
<td>Color</td>
<td>White. Off-white</td>
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<tr>
<td>Odor</td>
<td>None</td>
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<tr>
<td>Taste</td>
<td>No information available</td>
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<tr>
<td>Molecular/Formula weight</td>
<td>147.01</td>
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<td>Flammability</td>
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<td>Flashpoint (°C/°F)</td>
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<tr>
<td>Autoignition Temperature (°C/°F)</td>
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<tr>
<td>Lower Explosion Limit (%)</td>
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<td>Decomposition temperature(°C/°F)</td>
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<td>Upper Explosion Limit (%)</td>
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<td>Melting point/range(°C/°F)</td>
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<td>Density (g/cm3)</td>
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<tr>
<td>pH</td>
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<tr>
<td>Vapor pressure @ 20°C (kPa)</td>
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</tbody>
</table>

### Appropriate engineering controls

**Engineering measures to reduce exposure:**
Ensure adequate ventilation. 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.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
10. STABILITY AND REACTIVITY

Reactivity
Reaction with Zinc releases explosive hydrogen gas
Bromine trifluoride rapidly attacks calcium chloride
Violent polymerization occurs when mixed with Methyl Vinyl Ether
May form hydrogen chloride in the presence of sulfuric or phosphoric acids

Chemical stability
Stability: Stable under recommended storage conditions.
Possibility of Hazardous Reactions: Hazardous polymerization does not occur
Conditions to avoid: Heat. Avoid dust formation. Exposure to moisture. Exposure to moist air.
Incompatible materials.
Incompatible Materials:
Zinc
Metals
Oxidizing agents
Acids
Hazardous decomposition products:
When heated to decomposition it emits toxic fumes. Hydrogen chloride gas.

Other Information
Corrosivity: No information available
Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Principal Routes of Exposure:
Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information
Calcium Chloride, Dihydrate
CAS-No. 10035-04-8
LD50/oral/rat = No information available

Product code: CA140
Product name: CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = No information available

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: May cause skin irritation. Mild skin irritation. Contact with dry skin causes mild skin irritation. May cause severe irritation and possible burns if skin is wet.

Eye Contact: Causes serious eye irritation. May cause transient corneal injury.

Inhalation Irritating to respiratory system. May cause severe irritation of the upper respiratory tract with pain, and inflammation.

Ingestion Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. Ingestion may cause nausea, vomiting. May affect behavior/central nervous system (somnolence, convulsions). May affect the cardiovascular system (cardiac arrhythmias). May affect the cardiovascular system (change in heart rate). May affect blood (changes in serum composition). May affect the blood (changes in white blood cell count). May affect respiration. It may affect the brain.

Aspiration hazard No information available.

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

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: May affect genetic material

Product code: CA140
Product name: CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP
Carcinogenic effects: Not considered carcinogenic. Equivocal tumorigenic agent by Registry of Toxic Effects of Chemical Substances (RTECS) criteria.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>IARC</th>
<th>ACGIH - Carcinogens</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tbody>
</table>

**ACGIH** (American Conference of Governmental Industrial Hygienists)

**IARC** (International Agency for Research on Cancer)

**NTP** (National Toxicology Program)

**OSHA** (Occupational Safety and Health Administration of the US Department of Labor)

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.

Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

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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</tr>
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<td>10035-04-8</td>
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</table>

14. TRANSPORT INFORMATION

Product code: CA140

Product name: CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP
## DOT

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<tr>
<th>Category</th>
<th>Information</th>
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<td>Proper Shipping Name:</td>
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<td>Hazard Class:</td>
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<tr>
<td>Subsidiary Class</td>
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<td>Packing Group:</td>
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<td>Emergency Response Guide Number</td>
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<td>Marine Pollutant:</td>
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<td>DOT RQ (lbs):</td>
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## TDG (Canada)

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## ADR

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<td>Packing Group:</td>
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<tr>
<td>Subsidiary Risk:</td>
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## IMO / IMDG

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<th>Information</th>
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<tbody>
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## RID

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<th>Information</th>
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## ICAO

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## IATA

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<tbody>
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<td>Hazard Class:</td>
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**Product code:** CA140  
**Product name:** CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP
### 15. REGULATORY INFORMATION

#### International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</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 Chloride, Dihydrate</td>
<td>10035-04-8</td>
<td>Not listed. Calcium chloride, dihydrate (CAS number 10035-04-8) is exempt from TSCA 8(b) Inventory listing since it is a hydrate. However, the anhydrous form (CAS number 10043-52-4) is listed as ACTIVE in the TSCA 8(b) Inventory.</td>
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<td>Present</td>
<td>Present (1)-176</td>
<td>Present</td>
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</table>

#### U.S. Regulations

**Calcium Chloride, Dihydrate**

- **FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 184.1193
- **FDA - 21 CFR - Total Food Additives:**
  - 133.102 133.108 133.111 133.113 133.118 133.127 133.136 133.138 133.141
  - 133.144 133.147 133.149 133.152 133.153 133.156 133.157 133.164 133.165
  - 133.179 133.182 133.183 133.185 133.187 133.188 133.189 133.190 133.195
  - 145.145 150.141 150.161 172.560 178.1010 184.1193


**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>CAS-No.</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
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#### CERCLA/SARA

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</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 ROs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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**Product code:** CA140  
**Product name:** CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP
U.S. TSCA

<table>
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<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) -Health and Safety Reporting</th>
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<tbody>
<tr>
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</table>

Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information:

Component
Calcium Chloride, Dihydrate 10035-04-8 (100)

WHIMIS 2015 Hazard Classification
Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.

Canada Hazardous Products Regulation
This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR.

WHIMIS 1988 Hazard Class
D2B Toxic materials

Components
Calcium Chloride, Dihydrate

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.

Inventory

<table>
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<th>Components</th>
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<th>Canada (NDSL)</th>
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EU Classification

EU GHS - SV - CLP 1272/2008

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<td>10035-04-8</td>
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EU - CLP (1272/2008)

R-phrase(s)
R36 - Irritating to eyes.

S-phrase(s)
S2 - Keep out of the reach of children.
S22 - Do not breathe dust.
S24 - Avoid contact with skin.

Product code: CA140

Product name: CALCIUM CHLORIDE, DIHYDRATE, USP, EP, BP, JP
<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Chloride, Dihydrate</td>
<td>10035-04-8</td>
<td>No information</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Indication of danger:**
Xi - Irritant.

![Xi]

### 16. OTHER INFORMATION

- **Preparation Date:** 1/23/2015
- **Revision Date:** 6/26/2018
- **Prepared by:** Sonia Owen

**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.

End of Safety Data Sheet