1. IDENTIFICATION

Product identifier

Product code: CA138
Product Name: CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC

Other means of identification

Synonyms: Calplus
Caltac
Snomelt
Superflake anhydrous

CAS #: 10043-52-4
RTECS #: EV9800000
Cl#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Fire extinguishing agent. In desiccators.
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 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)

Acute toxicity - Oral Category 4
Serious eye damage/eye irritation Category 2

Label elements

Warning

Hazard statements
Harmful if swallowed
Causes serious eye irritation

Product code: CA138
Product name: CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
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, Anhydrous</td>
<td>10043-52-4</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

Product code: CA138  Product name: CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
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


Incompatible Materials: Water Zinc Metals Oxidizing agents

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>
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<tr>
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<th>Canada - Alberta</th>
<th>Canada - British</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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</table>

Product code: CA138  Product name: CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
Columbia

Calcium Chloride, Anhydrous 10043-52-4 None None 5 mg/m³ TWA None

Australia and Mexico

<table>
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<th>CAS-No.</th>
<th>Australia</th>
<th>Mexico</th>
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</thead>
<tbody>
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<td>Calcium Chloride, Anhydrous</td>
<td>10043-52-4</td>
<td>None</td>
<td>None</td>
</tr>
</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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Odor: None.</td>
<td>Taste Saline.</td>
<td>Formula: CaCl₂</td>
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<tr>
<td>Molecular/Formula weight (g/mole): 110.99</td>
<td>Flammability: No information available</td>
<td>Flashpoint (°C/°F): No information available.</td>
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<tr>
<td>Flash Point Tested according to: Not applicable</td>
<td>Autoignition Temperature (°C/°F): No information available</td>
<td>Lower Explosion Limit (%): No information available.</td>
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<tr>
<td>Upper Explosion Limit (%): No information available</td>
<td>Melting point/range(°C/°F): 772-775 °C/1421.6-1427 °F</td>
<td>Decomposition temperature(°C/°F): No information available.</td>
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<tr>
<td>Boiling point/range(°C/°F): &gt; 1600 °C/&gt; 2912 °F</td>
<td>Bulk density: No information available</td>
<td>Density (g/cm3): 1.34 @ 20 °C 2.15 @ 25 °C</td>
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<td>Specific gravity: No information available</td>
<td>pH: No information available</td>
<td>Vapor pressure @ 20°C (kPa): No information available</td>
</tr>
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</table>

**Product code:** CA138 **Product name:** CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
10. STABILITY AND REACTIVITY

Reactivity
- Exothermic reaction with water
- Dissolves in water releasing heat
- Reaction with Zinc releases explosive hydrogen gas
- Bromine trifluoride rapidly attacks calcium chloride
- Violent polymerization occurs when mixed with Methyl Vinyl Ether

Chemical stability
- Stability: Stable under recommended storage conditions.
- Possibility of Hazardous Reactions: Hazardous polymerization does not occur
- Incompatible Materials: Water, Zinc, Metals, Oxidizing agents

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.

Acute Toxicity

Component Information
- Calcium Chloride, Anhydrous
- CAS-No.: 10043-52-4

Product code: CA138
Product name: CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
LD50/oral/rat = 1000 mg/kg Oral LD50 Rat
LD50/oral/mouse = 1940 mg/kg
LD50/dermal/rabbit = No information available
LD50/dermal/rat = 2630 mg/kg Dermal LD50 Rat
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 3798 mg/kg Oral LD50 Rat
4179 mg/kg Oral LD50 Rat
2000 mg/kg Oral LD50 Rat

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 1000 mg/kg
LD50/oral/mouse =
Value - Acute Tox Oral = 1940 mg/kg
LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available
LD50/dermal/rat
VALUE -Acute Tox Dermal = 2630 mg/kg
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.

Product code: CA138 Product name: CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
Mutagenic Effects: May affect genetic material

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>
<td>Not listed</td>
</tr>
</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: Aquatic environment.

Calcium Chloride, Anhydrous - 10043-52-4

Freshwater Fish Species Data: 10650 mg/L LC50 Lepomis macrochirus 96 h static 1

Water Flea Data: 52 mg/L EC50 Daphnia magna 48 h

Persistence and degradability: Not inherently biodegradable

Bioaccumulative potential: Does not bioaccumulate.

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:

Product code: CA138

Product name: CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
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<tbody>
<tr>
<td>Calcium Chloride, Anhydrous</td>
<td>10043-52-4</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Class:** No information available
- **Packing group:** No information available
- **Emergency Response Guide Number:** No information available
- **Marine Pollutant:** No data available
- **DOT RQ (lbs):** No information available
- **Special Provisions:** No Information available
- **Symbol(s):** No information available
- **Description:** No information available

TDG (Canada)
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available
- **Packing Group:** No information available
- **Marine Pollutant:** No Information available
- **Description:** No information available

ADR
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Packing Group:** No information available
- **Subsidiary Risk:** No information available

IMO / IMDG
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Packing Group:** No information available
- **Subsidiary Risk:** No information available
- **Marine Pollutant:** No information available

RID
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available
- **Subsidiary Risk:** No information available
- **Packing Group:** No information available

ICAO
- **UN-No:** Not Regulated
- **Proper Shipping Name:** No information available
- **Hazard Class:** No information available

**Product code:** CA138  **Product name:** CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
IATA
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
ERG Code: No information available
Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

<table>
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<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, Anhydrous</td>
<td>10043-52-4</td>
<td>Present(ACTIVE)</td>
<td>Present KE-04496</td>
<td>Present (1)-176</td>
<td>Present</td>
<td>Present</td>
<td>Present 233-140-8</td>
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</table>

U.S. Regulations

Calcium Chloride, Anhydrous
FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 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>
<th>Female Reproductive Toxicity</th>
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</table>

CERCLA/SARA

<table>
<thead>
<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 RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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<tbody>
<tr>
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U.S. TSCA

<table>
<thead>
<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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<tr>
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</table>

Canada

WHIMIS 2015 - GHS Classifications

Product code: CA138
WHMIS 2015 Hazard Classification Information:

**Component**
Calcium Chloride, Anhydrous
10043-52-4 (100)

**WHMIS 2015 Hazard Classification**
Serious Eye Damage/Eye Irritation - Category 2A: 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.

**Inventory**

<table>
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<tr>
<th>Components</th>
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<th>Canada (NDSL)</th>
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<tbody>
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<table>
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<tr>
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<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
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<tbody>
<tr>
<td>Calcium Chloride, Anhydrous</td>
<td>10043-52-4</td>
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**EU Classification**

**EU GHS - SV - CLP 1272/2008**

<table>
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<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
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<tr>
<td>Calcium Chloride, Anhydrous</td>
<td>10043-52-4</td>
<td>No information</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<tbody>
<tr>
<td>Calcium Chloride, Anhydrous</td>
<td>10043-52-4</td>
<td>Xi; R36</td>
<td>No information</td>
<td>S2 S22 S24</td>
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</table>

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

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

**Xi**

16. OTHER INFORMATION

**Product code:** CA138

**Product name:** CALCIUM CHLORIDE, ANHYDROUS, GRANULAR, FCC
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