1. IDENTIFICATION

Product identifier

Product code: P1565
Product Name: PYROPHOSPHORIC ACID, TECHNICAL

Other means of identification

Synonyms: Diphosphoric acid
CAS #: 2466-09-3
RTECS #: JL6672500
CI#: 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
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)

<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>Skin corrosion/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Label elements

Danger

Hazard statements
Harmful if swallowed
Causes severe skin burns and eye damage
Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
Not available

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

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor/physician
Absorb spillage to prevent material damage
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 person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage
Store locked up

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>Pyrophosphoric Acid</td>
<td>2466-09-3</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. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of water

Product code: P1565  Product name: PYROPHOSPHORIC ACID, TECHNICAL
for at least 15 minutes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

**Eye Contact:**
Flush eyes 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. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention.

**Ingestion:**
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
Severe skin and eye irritation or burns. Causes digestive (gastrointestinal) tract irritation. May cause gastrointestinal (digestive) tract burns. Can burn mouth, throat, and stomach.

**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:**
No information available.

**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.

---

**Product code:** P1565  
**Product name:** PYROPHOSPHORIC ACID, TECHNICAL
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

Environmental precautions Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. 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. If the product is in its solid form: Cover with plastic sheet to prevent spreading. If the product is in its liquid form: Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Technical Measures/Precautions: Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities


Incompatible Materials:
Oxidizing agents
Bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
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<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WEEL</th>
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<tbody>
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<td>None</td>
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Canada

<table>
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<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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<th>CAS-No.</th>
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<th>Mexico</th>
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<tbody>
<tr>
<td>Pyrophosphoric Acid</td>
<td>2466-09-3</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 or Face-shield

**Skin and body protection:** Chemical resistant apron
Long sleeved clothing
Gloves
Boots
If working with large quantities:
Chemical resistant protective suit

**Respiratory protection:** In well ventilated areas or if used in a fume hood, respiratory protection is not normally required. In case of insufficient ventilation wear suitable respiratory equipment.

**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**

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid or Liquid</td>
<td>A viscous syrupy liquid that tends to solidify on long standing at room temperature.</td>
<td>Colorless.</td>
</tr>
</tbody>
</table>

**Odor:** Odorless.

**Taste:** No information available.

**Flammability:** No information available

**Molecular/Formula weight:** 177.98

**Formula:** H4P2O7

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

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

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

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

**Melting point/range(°C/°F):** 54-63 °C/129-145 °F

**Boiling point/range(°C/°F):** No information available

**Bulk density:** No information available

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

**Specific gravity:**

**Product code:** P1565

**Product name:** PYROPHOSPHORIC ACID, TECHNICAL
10. STABILITY AND REACTIVITY

Reactivity
When diluted with water, it is rapidly converted into orthophosphoric acid

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Exposure to moisture. Exposure to moist air. Incompatible materials.

Incompatible Materials:
Oxidizing agents
Bases

Hazardous decomposition products: No information available.

Other Information
Corrosivity:
Extremely corrosive in presence of aluminum, brass, and zinc.
Slightly corrosive in presence of copper, of stainless steel(304).
Non-corrosive in presence of stainless steel(316).

Special Remarks on Corrosivity: Severe corrosive effect on brass and bronze.

11. TOXICOLOGICAL INFORMATION

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

Acute Toxicity

Component Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>LD50/oral/rat</th>
<th>LD50/oral/mouse</th>
<th>LD50/dermal/rabbit</th>
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</thead>
<tbody>
<tr>
<td>Pyrophosphoric Acid</td>
<td>2466-09-3</td>
<td>No information available</td>
<td>1170 mg/kg</td>
<td>No information available</td>
</tr>
</tbody>
</table>

Product code: P1565  Product name: PYROPHOSPHORIC ACID, TECHNICAL
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 = 1170 mg/kg

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: Severe skin irritation. Causes skin burns.
Eye Contact: Severe eye irritation. Causes eye burns. May cause permanent injury.
Inhalation May cause irritation of respiratory tract.
Ingestion Harmful if swallowed. Causes digestive (gastrointestinal) tract irritation. Causes digestive or gastrointestinal tract burns. May affect behavior/central nervous system (somnolence).

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: No information available

Carcinogenic effects: Not considered carcinogenic.

<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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</thead>
<tbody>
<tr>
<td>Pyrophosphoric Acid</td>
<td>2466-09-3</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Product code: P1565 Product name: PYROPHOSPHORIC ACID, TECHNICAL
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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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrophosphoric Acid</td>
<td>2466-09-3</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (pyrophosphoric acid)
Hazard Class: 8
Subsidiary Class: No information available
Packing group: II
Emergency Response Guide Number: 154

Product code: P1565  Product name: PYROPHOSPHORIC ACID, TECHNICAL
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: IB8, IP2, IP4, T3, TP33
Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.
Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II

TDG (Canada)
UN-No: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (pyrophosphoric acid)
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant: No information available
Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II

ADR
UN-No: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (pyrophosphoric acid)
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
Special Provisions: 274
Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II

IMO / IMDG
UN-No: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (pyrophosphoric acid)
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
EMS: F-A
Special Provisions: 274
Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (PYROPHOSPHORIC ACID), 8, II

RID
UN-No: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (pyrophosphoric acid)
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
Special Provisions: 274
Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II

ICAO
UN-No: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (pyrophosphoric acid)
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II
Special Provisions: A3

IATA
UN-No: UN3260
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (pyrophosphoric acid)

Product code: P1565
Product name: PYROPHOSPHORIC ACID, TECHNICAL
Hazard Class: 8
Subsidiary Risk: No information available
Packing Group: II
ERG Code: 8L
Special Provisions No information available
Description: UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S., 8, II

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>Pyrophosphoric Acid</td>
<td>2466-09-3</td>
<td>Not Listed</td>
<td>Present KE-29971</td>
<td>Not present</td>
<td>Present (1)-422</td>
<td>Present</td>
<td>Present</td>
<td>219-574-0</td>
</tr>
</tbody>
</table>

U.S. Regulations


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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<tr>
<td>Pyrophosphoric Acid</td>
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<td>Not Listed</td>
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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>
<td>Pyrophosphoric Acid</td>
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<td>None</td>
<td>None</td>
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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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<tbody>
<tr>
<td>Pyrophosphoric Acid</td>
<td>2466-09-3</td>
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<td>Not Applicable</td>
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Canada

WHIMIS 2015 - GHS Classifications

WHIMIS 2015 Hazard Classification Information: The WHMIS 2015 classification of this product has not been validated or reviewed yet.

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: The classification of this product has not been validated yet

Product code: P1565
Product name: PYROPHOSPHORIC ACID, TECHNICAL
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

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<td>CEPA Schedule I - Toxic Substances, Not listed</td>
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<table>
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<th>Components</th>
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EU Classification

EU GHS - SV - CLP 1272/2008

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<th>Components</th>
<th>CAS-No.</th>
<th>EU GHS - SV - CLP (1272/2008)</th>
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<td>2466-09-3</td>
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EU - CLP (1272/2008)

R-phrase(s)
Not determined

S-phrase(s)
none

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<th>Classification</th>
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<th>Safety Phrases</th>
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<td>2466-09-3</td>
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<td>No information</td>
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</table>

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

Indication of danger:
not determined

16. OTHER INFORMATION

Preparation Date: 8/3/2017
Revision Date: 8/3/2017
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