1. IDENTIFICATION

Product identifier

Product code: PH118
Product Name: PHENOBARBITAL (CIV), USP

Other means of identification

Synonyms:
5-Ethyl-5-phenylbarbituric acid
5-Ethyl-5-phenyl-2,4,6-(1H,3H,5H)pyrimidinetrione
2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-ethyl-5-phenyl-
Phenylethylbarbiturate
5-Phenyl-ethyl-barbituric acid
Phenylethylmalonylurea

CAS #: 50-06-6
RTECS #: CQ6825000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Drug, Medication.
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>Acute toxicity - Oral</th>
<th>Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label elements

Danger
Hazard statements
Toxic if swallowed
May cause an allergic skin reaction
Suspected of causing genetic defects
May cause drowsiness or dizziness
Suspected of causing cancer
Suspected of damaging fertility or the unborn child

Hazards not otherwise classified (HNOC)
Not Applicable

Other hazards
May be habit forming

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
IF ON SKIN: Wash with plenty of water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth

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>
</tr>
</thead>
<tbody>
<tr>
<td>Phenobarbital</td>
<td>50-06-6</td>
<td>100</td>
</tr>
</tbody>
</table>

Product code: PH118
Product name: PHENOBARBITAL (CIV), USP
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 removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

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: Toxic if swallowed. 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: Toxic if swallowed. Central nervous system effects. May cause eye/skin irritation. May cause an allergic skin reaction. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause stomach cramping. May affect the cardiovascular system. Bradycardia. Hypotension. May affect respiration. May affect the liver. It may affect the kidneys. It may affect the blood. May cause loss of appetite. May cause metabolic acidosis.

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: Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical


Specific hazards: May be combustible at high temperatures

Special Protective Actions for Firefighters

Product code: PH118 Product name: PHENOBARBITAL (CIV), USP
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. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid breathing dust. Remove all sources of ignition.

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. 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 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: 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:
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 WHEEL</th>
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<td>None</td>
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Product code: PH118  Product name: PHENOBARBITAL (CIV), USP
Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Canada - Alberta</th>
<th>Canada - British Columbia</th>
<th>Canada - Ontario</th>
<th>Canada - Quebec</th>
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<tbody>
<tr>
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<td>None</td>
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Australia and Mexico

<table>
<thead>
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<th>CAS-No.</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenobarbital</td>
<td>50-06-6</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: Effective dust mask. Or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

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>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor: Odorless</td>
<td>Taste</td>
<td>Formula: C12H12N2O3</td>
</tr>
<tr>
<td>Molecular/Formula weight: No information available</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 available</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): 174-178 °C/345-352 °F</td>
<td>Decomposition temperature(°C/°F): No information available</td>
</tr>
<tr>
<td>Boiling point/range(°C/°F): No information available</td>
<td>Bulk density: No information available</td>
<td>Density (g/cm3): No information available</td>
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</table>

Specific gravity: 

Product code: PH118  Product name: PHENOBARBITAL (CIV), USP
10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials: Oxidizing agents

Hazardous decomposition products: No information available.

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

<table>
<thead>
<tr>
<th>Phenobarbital</th>
<th>CAS-No.</th>
<th>50-06-6</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/rat</td>
<td>162 mg/kg Oral LD50 Rat</td>
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</tr>
<tr>
<td>LD50/oral/mouse</td>
<td>112-137 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

Product code: PH118
Product name: PHENOBARBITAL (CIV), USP
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 = 130 mg/kg oral LD50 Guinea pig
150 mg/kg oral LD50 Dog

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 162 mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 112 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: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Toxic if swallowed. May cause central nervous system effects (affect behavior).
Phenobarbital is a central nervous system (CNS) depressant. Moderate overdoses may resemble alcohol intoxication. It may cause loss of appetite, nausea, vomiting, stomach pain or cramps, indigestion, diarrhea and/or constipation. It may cloud perception and distorted judgement, induce drowsiness, somnolence, muscle contraction or spasticity, lethargy, dizziness, headache, nervousness, insomnia, memory problems, hallucinations, irritability, slurred speech, confusion, ataxia, sleep, nightmares and night terrors, depressed reflexes, and anesthesia. It may also cause respiratory depression (shortness of breath, slow or rapid, shallow breathing), pulmonary edema, hypotension, slow heartbeat, hypothermia, coma, shock, and death from respiratory failure. Respiratory depression may lead to metabolic acidosis and hypoxia. Pupils may also be constricted and reactive to light with rapid involuntary movement (nystagmus), and in the late stages may be dilated due to hypoxia. It may also affect the kidneys (renal tubular transport). It may also cause fever or allergic reaction (dermatitis, and skin rashes)

Aspiration hazard No information available.

Product code: PH118
Product name: PHENOBARBITAL (CIV), USP
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity

Ingestion: Phenobarbital can be addictive and is a drug of abuse. Prolonged and repeated ingestion may cause loss of appetite/weight loss, hypocalcemia, and produce central nervous system effects similar to that of acute ingestion. It may also produce variable pupillary responses, most often with miosis or with mydriasis in cases of severe intoxication. It may also affect the bones (osteomalacia), thyroid, kidneys, blood (anemia, leukopenia, agranulocytosis, macrocytosis, methemoglobinemia), brain (degenerative changes), liver and cause liver damage. It may also cause allergic reaction.

Sensitization: No information available.

Mutagenic Effects:

Suspected of causing genetic defects

Mutagenic effects in mammalian somatic cells
Mutations in microorganisms
Sister Chromatid Exchange: Hamster ovary (RTECS)
Cytogenic analysis - hamster ovary

Carcinogenic effects:

Possibly carcinogenic to humans. Suspected of causing cancer.

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

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)
X - Present

Reproductive toxicity

Suspected of damaging fertility or the unborn child

Reproductive Effects:

Experiments have shown reproductive toxicity effects on laboratory animals
May cause adverse reproductive effects based on animal data

Developmental Effects:

May cause adverse developmental effects
Possible risk of harm to the unborn child

Teratogenic Effects:

No information available

Specific Target Organ Toxicity

STOT - single exposure: central nervous system.
STOT - repeated exposure: No information available.
Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Phenobarbital - 50-06-6

Product code: PH118 Product name: PHENOBARBITAL (CIV), USP
Freshwater Fish Species Data: 446-526 mg/L LC50 Pimephales promelas 96 h flow-through 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>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenobarbital</td>
<td>50-06-6</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No: UN2811
Proper Shipping Name: Toxic solids, organic, n.o.s. (phenobarbital)
Hazard Class: 6.1
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: 154
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: IB8, IP3, T1, 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: UN2811, Toxic solids, organic, n.o.s., 6.1, III

TDG (Canada)
UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: No Information available
Description: UN2811, Toxic solid, organic, n.o.s., 6.1, III

ADR
UN-No: UN2811
Proper Shipping Name: Toxic solid, organic, n.o.s.
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Special Provisions: 274, 614
Description: UN2811, Toxic solid, organic, n.o.s., 6.1, III

Product code: PH118 Product name: PHENOBARBITAL (CIV), USP
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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<tr>
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<td>Present KE-14043</td>
<td>Present (9)-2248</td>
<td>Not present</td>
<td>Present</td>
<td>Present 200-007-0</td>
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</tbody>
</table>

U.S. Regulations

**Phenobarbital**

- **Massachusetts RTK**: Present
- **Minnesota - Hazardous Substance List**: Present
- **California Directors List of Hazardous Substances**: Present

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**

**Product code**: PH118  **Product name**: PHENOBARBITAL (CIV), USP
WARNING: This product contains a chemical known to the State of California to cause cancer. (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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</thead>
<tbody>
<tr>
<td>Phenobarbital</td>
<td>50-06-6</td>
<td>carcinogen</td>
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<td>Not Listed</td>
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</tbody>
</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>
</tr>
</thead>
<tbody>
<tr>
<td>Phenobarbital</td>
<td>50-06-6</td>
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<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>Phenobarbital</td>
<td>50-06-6</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

Canada

WHMIS hazard class:
D1B  Toxic materials
D2A  Very toxic materials

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>
<th>CAS-No.</th>
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<table>
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<tr>
<th>Components</th>
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<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
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<tr>
<td>Phenobarbital</td>
<td>50-06-6</td>
<td>Not listed</td>
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EU Classification
R-phrase(s)
R25 - Toxic if swallowed.
R40 - Limited evidence of a carcinogenic effect

S-phrase(s)
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S36/37 - Wear suitable protective clothing and gloves.

<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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<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:
T - Toxic

16. OTHER INFORMATION

Preparation Date: 8/26/2016
Revision Date: 8/26/2016
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