SAFETY DATA SHEET

1. IDENTIFICATION

Product code: C1015
Product Name: CADMIUM ACETATE, CRYSTAL, REAGENT

Other means of identification
Synonyms:
- Cadmium acetate dihydrate
- Cadmium diacetate dihydrate
- Acetic acid, cadmium salt, dihydrate
- Bis(acetoxy) cadmium

CAS #: 5743-04-4
RTECS #: AF7505000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Research and Development.
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)
Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

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

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Acute toxicity - Dermal</th>
<th>Acute toxicity - Inhalation (Gases)</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 4</td>
<td>Category 4</td>
<td>Category 4</td>
<td>Category 1A</td>
</tr>
</tbody>
</table>

Label elements
Danger

Hazard statements
Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
May cause cancer

Other hazards
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
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
Use only outdoors or in a well-ventilated area

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
Specific measures (see .? on this label)
IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store locked up

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Product code: C1015
Product name: CADMIUM ACETATE, CRYSTAL, REAGENT
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
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</thead>
<tbody>
<tr>
<td>Cadmium Acetate</td>
<td>5743-04-4</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice: Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eye 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. 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 Harmful by inhalation, in contact with skin and if swallowed. Irritating to respiratory system. Ingestion causes damage of central nervous system, liver, kidneys, blood and bone marrow. May cause cancer. It may affect the lungs.

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

Hazardous Combustion Products: Carbon oxides, Metal oxides, Cadmium oxide

Specific hazards: May be combustible at high temperatures. Fire may produce irritating and/or toxic gases

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: C1015   Product name: CADMIUM ACETATE, CRYSTAL, REAGENT
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid breathing dust. Avoid dust formation. Remove all sources of ignition. All equipment used when handling the product must be grounded.

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

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. All equipment used when handling the product must be grounded. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Do not ingest. When using do not smoke. Keep away from heat and sources of ignition. Use only in well-ventilated areas. 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. Keep away from heat and sources of ignition. Store in a segregated and approved area. 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>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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<tbody>
<tr>
<td>Cadmium Acetate 5743-04-4</td>
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<td>None</td>
<td>=0.01mg/m³ TWA (as Cd)</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>=0.002mg/m³ TWA (respirable, as Cd)</td>
<td></td>
</tr>
</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium Acetate 5743-04-4</td>
<td>=0.002mg/m³ TWA</td>
<td>=0.01mg/m³ TWA (as Cd)</td>
<td>=0.01mg/m³ TWA (as Cd)</td>
<td>=0.02mg/m³ TWA (respirable, as Cd)</td>
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</tbody>
</table>

Product code: C1015 Product name: CADMIUM ACETATE, CRYSTAL, REAGENT
### Appropriate engineering controls

**Engineering measures to reduce exposure:**

Ensure adequate ventilation, especially in confined areas. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value. In case of insufficient ventilation, wear suitable respiratory equipment.

**Individual protection measures, such as personal protective equipment**

#### Personal Protective Equipment

- **Eye protection:** Safety glasses with side-shields
- **Skin and body protection:** Chemical resistant apron. Long sleeved clothing. Gloves.
- **Respiratory protection:** Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

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**Australia and Mexico**

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
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<tbody>
<tr>
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<td>=0.01mg/m³ TWA (total dust, as Cd)</td>
</tr>
<tr>
<td>5743-04-4</td>
<td>=0.002mg/m³ TWA (respirable dust, as Cd)</td>
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</tr>
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</table>
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Solid</td>
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<tr>
<td>Appearance:</td>
<td>Crystals</td>
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<tr>
<td>Color:</td>
<td>White</td>
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<tr>
<td>Odor:</td>
<td>Odorless</td>
</tr>
<tr>
<td>Taste</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular/Formula weight:</td>
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</tr>
<tr>
<td>Formula:</td>
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<tr>
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<tr>
<td>Flash Point Tested according to:</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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<tr>
<td>Upper Explosion Limit (%):</td>
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<tr>
<td>Boiling point/range(°C/°F):</td>
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<td>Partition coefficient (n-octanol/water):</td>
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<tr>
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<tr>
<td>Autoignition Temperature (°C/°F):</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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.
Other Information
Corrosivity: Non-corrosive in the presence of glass
Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

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

Acute Toxicity

Component Information

Cadmium Acetate - 5743-04-4

LD50/oral/rat = 360 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = 128mg/m³ Inhal LC50 rat
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 360mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = No information available

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat
VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat
VALUE-Vapor = 128mg/m³
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

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Harmful in contact with skin.

Eye Contact: May cause eye irritation.

Inhalation Harmful by inhalation. May cause irritation of respiratory tract.
Ingestion May cause digestive/gastrointestinal tract irritation. May affect behavior/central nervous system (somnolence). May affect the kidneys. May affect the blood. May affect liver. It may affect the bone marrow (changes in bone marrow).

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Chronic Toxicity
Repeated or prolonged exposure may cause cancer. Chronic exposure can irritate the lungs and upper respiratory tract. Prolonged or repeated inhalation may affect respiration. Chronic exposure may affect the liver, kidneys, and blood.

Sensitization:
No information available

Mutagenic Effects:
Cytogenetic Analysis
Experiments with animal lymphocytes have shown mutagenic effects

Carcinogenic effects:
May cause cancer. Cadmium and cadmium compounds (as respirable dust/aerosols) have proven so far to be unmistakably carcinogenic in animal experimentation only.

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

Reproductive toxicity: Experiments have shown reproductive toxicity effects on laboratory animals.

Reproductive Effects: May cause adverse reproductive effects based on animal data
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available
STOT - repeated exposure: No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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:
Dispose of in accordance with federal, state and local regulations Dispose of as unused product. Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium Acetate</td>
<td>None</td>
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<td>None</td>
<td>None</td>
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</tbody>
</table>

### 14. TRANSPORT INFORMATION

**DOT**
- **UN-No:** UN3077
- **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.
- **Hazard Class:** 9
- **Subsidiary Risk:** No information available
- **Packing Group:** III
- **ERG No:** 171
- **Marine Pollutant:** No data available
- **DOT RQ (lbs):** No information available
- **Symbol(s):** G

**TDG (Canada)**
- **UN-No:** UN3077
- **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.
- **Hazard Class:** 9
- **Subsidiary Risk:** No information available
- **Packing Group:** III
- **Description:** No information available

**ADR**
- **UN-No:** UN3077
- **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.
- **Hazard Class:** 9
- **Packing Group:** III
- **Subsidiary Risk:** No information available
- **Classification Code:** No information available
- **Description:** No information available
- **CEFIC Tremcard No:** No information available

**IMO / IMDG**
- **UN-No:** UN3077
- **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.
- **Hazard Class:** 9
- **Subsidiary Risk:** No information available
- **Packing Group:** III
- **Description:** No information available
- **IMDG Page:** No information available
- **Marine Pollutant:** No information available
- **EMS:** F-A
- **MFAG:** No information available
- **Maximum Quantity:** No information available

**RID**
- **UN-No:** UN3077
- **Proper Shipping Name:** Environmentally hazardous substance, solid, n.o.s.
- **Hazard Class:** 9

**Product code:** C1015 **Product name:** CADMIUM ACETATE, CRYSTAL, REAGENT
14. TRANSPORT INFORMATION

Subsidiary Risk: No information available
Packing Group: III
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

IATA
UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s.
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 9L
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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</thead>
<tbody>
<tr>
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<td>Present</td>
<td>Not present</td>
<td>Present</td>
<td>Present</td>
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</table>

U.S. Regulations

Cadmium Acetate
Massachusetts RTK: Present
New Jersey RTK Hazardous Substance List: SN 2199
New Jersey (EHS) List: Sn2199 TPQ:500lb
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Pennsylvania RTK: Environmental Hazard
Pennsylvania RTK - Environmental Hazard List: Present
Minnesota - Hazardous Substance List: Carcinogen (as Cd)
New York Release Reporting - List of Hazardous Substances:
1 lb RQ (air)
1 lb RQ (water)
California Directors List of Hazardous Substances: Present


Chemicals Known to the State of California to Cause Cancer:
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>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

CERCLA/SARA

Product code: C1015
Product name: CADMIUM ACETATE, CRYSTAL, REAGENT
### Components

<table>
<thead>
<tr>
<th></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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</thead>
<tbody>
<tr>
<td>Cadmium Acetate</td>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>0.1%</td>
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</tbody>
</table>

### U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium Acetate</td>
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<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.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium Acetate</td>
<td>1%</td>
</tr>
</tbody>
</table>

### Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium Acetate</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium Acetate</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

### EU Classification

**R-phrase(s)**
- R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrase(s)**
- None

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium Acetate</td>
<td>Xn Harmful by inhalation, ingestion, and in contact with skin/eyes R50/53</td>
<td>&lt;=0.1%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>N Toxic to aquatic organisms with long-term effects R20/21/22</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Product code:** C1015  
**Product name:** CADMIUM ACETATE, CRYSTAL, REAGENT
Indication of danger:
None.

16. OTHER INFORMATION

Preparation Date: 7/17/2015
Revision Date: 7/17/2015
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

Product code: C1015  Product name: CADMIUM ACETATE, CRYSTAL, REAGENT