

SAFETY DATA SHEET

Preparation Date: 5/17/2017

Revision Date: 5/17/2017

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: C1957
Product Name: CADMIUM NITRATE TETRAHYDRATE, REAGENT, ACS

Other means of identification

Synonyms: Cadmium dinitrate tetrahydrate

CAS #: 10022-68-1
RTECS # EV1850000
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)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1
Oxidizing solids	Category 3

Label elements

Danger

Hazard statements

Toxic if swallowed

Fatal if inhaled
Causes skin irritation
Causes serious eye irritation
May cause cancer
May damage fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure
May intensify fire; oxidizer



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

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

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
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep/Store away from clothing and other combustible materials
Take any precaution to avoid mixing with combustibles
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IN CASE OF FIRE: Use water to extinguish. Do not use dry chemicals or foams. CO₂ or Halon may provide limited control.

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 ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

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

Product code: C1957

Product name: CADMIUM NITRATE
TETRAHYDRATE, REAGENT, ACS

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Cadmium Nitrate, tetrahydrate	10022-68-1	100

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

Most important symptoms and effects, both acute and delayed

- Symptoms** Contact causes skin irritation. Moderate skin irritation. Causes serious eye irritation. Moderate eye irritation. May cause gastrointestinal disturbances. May cause nausea and vomiting. Abdominal pain. May cause pulmonary edema. May cause bronchitis. May cause emphysema. It may affect the kidneys. May affect the blood and cause anemia. Exposure to nitrites/nitrates can cause gastroenteritis, abdominal pain, nausea, vomiting, diarrhea, metabolic acidosis, purging, methemoglobinemia, cyanosis, muscle weakness, dizziness, lightheadedness, loss of coordination, fatigue, headache, seizures, convulsions, dyspnea, dysrhythmias, coma, and death. Can affect the liver, metabolism (weight loss), blood (methemoglobinemia), cardiovascular system (bradycardia/tachycardia, hypotension, vasodilation, irregular heartbeat), kidneys.

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:** Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.
- Unsuitable Extinguishing Media:** Dry chemical. Foam. Halons.

Specific hazards arising from the chemical

Hazardous Combustion Products:

Nitrogen Oxides. Cadmium oxide.

Specific hazards:

Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.). The product is not flammable, but it may cause fire when in contact with other material. Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated.

Special Protective Actions for Firefighters

Specific Methods:

For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. DO NOT use combustible materials such as sawdust.

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:

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. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 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. Cover with plastic sheet to prevent spreading.

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. 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 breathe vapors/dust. Do not ingest. Do not smoke. Keep away from combustible material. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Hygroscopic. Protect from moisture. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Do not store near combustible materials. Store in a segregated and approved area.

Incompatible Materials:

Organic materials
 Combustible materials
 Reducing agents
 Powdered metals
 Copper
 Copper alloys
 Phosphorus

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**National occupational exposure limits****United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Cadmium Nitrate, tetrahydrate	10022-68-1	None	None	0.01 mg/m ³ TWA (as Cd); 0.002 mg/m ³ TWA (respirable particulate matter, as Cd)	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Cadmium Nitrate, tetrahydrate	10022-68-1	0.01 mg/m ³ TWA (as Cd)	0.01 mg/m ³ TWA (as Cd); 0.002 mg/m ³ TWA (respirable particulate matter, as Cd)	0.01 mg/m ³ TWA (as Cd); 0.002 mg/m ³ TWA (respirable particulate matter, as Cd)	0.025 mg/m ³ TWA _{EV} (as Cd)

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Cadmium Nitrate, tetrahydrate	10022-68-1	None	0.01 mg/m ³ TWA (total dust as Cd); 0.002 mg/m ³ TWA (respirable particulate matter, as Cd)

Appropriate engineering controls**Engineering measures to reduce exposure:**

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: Chemical resistant apron
Long sleeved clothing
Gloves

Respiratory protection: Wear respirator with dust filter.

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

Physical state: Solid	Appearance: Crystals.	Color: White. Off-white.
Odor: No information available.	Taste No information available.	Formula: Cd(NO3)2.4H2O
Molecular/Formula weight: 308.47	Flammability: No information available	Flashpoint (°C/°F): No information available.
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): 59.5 (°C)/139.1 (°F)	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 132 (°C)/269.6 (°F)	Bulk density: No information available	Density (g/cm3): No information available
Specific gravity: 2.46	pH: No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available
Miscibility: No information available	Solubility: Very soluble in water Solubility in Water: 2150 g/l at 20°C	

10. STABILITY AND REACTIVITY

Reactivity
No information available

Chemical stability

Stability: Hygroscopic. 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. Contact with combustible materials (wood, paper, oil, clothing, etc.).

Incompatible Materials: Organic materials
Combustible materials
Reducing agents
Powdered metals
Copper
Copper alloys
Phosphorus

Hazardous decomposition products: Nitrogen oxides (NOx). Cadmium oxide.

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:
Skin. Eyes. Inhalation. Ingestion.

Acute Toxicity

The following values are calculated based on chapter 3.1 of the GHS document
Component Information

Cadmium Nitrate, tetrahydrate	
CAS-No.	10022-68-1

LD50/oral/rat = 300 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 300 mg/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 = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

Product code: C1957

Product name: CADMIUM NITRATE
TETRAHYDRATE, REAGENT, ACS

7 / 14

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms**Skin Contact:** Causes skin irritation. Severe skin irritation.**Eye Contact:** Causes serious eye irritation. Moderately irritating to the eyes.**Inhalation** Fatal if inhaled. Symptoms may include coughing and wheezing, and shortness of breath. Symptoms may include coughing, chest pain, difficulty breathing. It may cause pulmonary edema.**Ingestion** Toxic if swallowed. May cause gastrointestinal disturbances. May cause gastroenteritis. May cause abdominal pain, nausea, vomiting, diarrhea. May cause metabolic acidosis. May affect the cardiovascular system (hypotension). May cause hyperglycemia. May cause salivation. May cause edema and swelling of the throat.**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** Chronic exposure may affect the kidneys and cause kidney damage. Prolonged or repeated inhalation may cause bronchitis with coughing, phlegm, and/or shortness of breath. Prolonged or repeated inhalation may cause emphysema. Prolonged or repeated inhalation may cause anemia. Chronic ingestion may cause electrolyte imbalance. Chronic ingestion may cause hypocalcemia, hypophosphatemia. Chronic exposure may cause osteomalacia, osteoporosis (widespread bone pain) with difficulty walking and increased fracture risk after slight trauma. This product is also a nitrate, therefore nitrate poisoning can occur. Prolonged or repeated nitrate ingestion may affect the urinary system (kidneys) and also may affect the blood, resulting in methemoglobin with attendant cyanosis, anorexia, hyperpnea and later dyspnea and chocolate brown colored blood. The primary toxic effects of nitrates include orthostatic hypotension and methemoglobinemia, Other symptoms include muscular weakness, faintness, dizziness, lightheadedness, fatigue, throbbing headache, mental impairment, incoordination, seizures, and convulsions, bradycardia or tachycardia, dysrhythmias, dyspnea. Prolonged or repeated ingestion of large amounts of nitrates may affect the liver and can cause gastroenteritis, nausea, vomiting, abdominal pain, weight loss. Possible coma and death.**Sensitization:** No information available.**Mutagenic Effects:** No information available**Carcinogenic effects:** May cause cancer.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Cadmium Nitrate, tetrahydrate	10022-68-1	Group 1 - Carcinogenic to Humans - monograph	A2 - Suspected Human Carcinogen (Cadmium	Known human carcinogens (Cadmium and Cadmium	Present	Not listed	Not listed

		100C [2012]; monograph 58 [1993]; Supplement 7 [1987] (cadmium compounds) Group 2A - Probably Carcinogenic to Humans - monograph 94 [2010] (covers ingested nitrates under conditions that result in endogenous nitrosation)	compounds)	compounds)			
--	--	--	------------	------------	--	--	--

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 May damage fertility or the unborn child

Reproductive Effects: May cause adverse reproductive effects

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

Target Organs: Respiratory system. Kidneys. Blood.

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

Product code: C1957

Product name: CADMIUM NITRATE
TETRAHYDRATE, REAGENT, ACS

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Cadmium Nitrate, tetrahydrate	10022-68-1	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (cadmium nitrate)
Hazard Class: 5.1
Subsidiary Class: No information available
Packing group: III
Emergency Response Guide Number: 140
Marine Pollutant: Marine Pollutant
DOT RQ (lbs): No information available
Special Provisions: IB8, IP3, T1, TP33
Symbol(s): No information available
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, III

TDG (Canada)

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (cadmium nitrate)
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: Marine Pollutant
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, III

ADR

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (cadmium nitrate)
Hazard Class: 5.1
Packing Group: III
Subsidiary Risk: No information available
Special Provisions: 511
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, III

IMO / IMDG

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (cadmium nitrate)
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: Marine Pollutant
EMS: F-A
Special Provisions: 223
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, III

RID

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (cadmium nitrate)
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
Special Provisions: 511
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, III

ICAO

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (cadmium nitrate)
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, III
Special Provisions A3

IATA

UN-No: UN1477
Proper Shipping Name: Nitrates, inorganic, n.o.s. (cadmium nitrate)
Hazard Class: 5.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 5L
Special Provisions No information available
Description: UN1477, Nitrates, inorganic, n.o.s., 5.1, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Cadmium Nitrate, tetrahydrate</i>	10022-68-1	Not Listed	Not present	Present	Present (1)-201	Present	Present	Not present

U.S. Regulations*Cadmium Nitrate, tetrahydrate*

New Jersey RTK Hazardous Substance List: Present SN 2199 and SN3722
New Jersey (EHS) List: SN 2199 and SN 3722 500 lb. TPQ
New Jersey - Discharge Prevention - List of Hazardous Substances: Present
Minnesota - Hazardous Substance List: present (carcinogen)
California Directors List of Hazardous Substances: Present (Cadmium compounds)

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**Chemicals Known to the State of California to Cause Cancer:**

 **WARNING:** This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

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)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Cadmium Nitrate, tetrahydrate	10022-68-1	carcinogen (cadmium and cadmium compounds)	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis

Cadmium Nitrate, tetrahydrate	10022-68-1	None	None	None	Cadmium compounds	0.1%
-------------------------------	------------	------	------	------	-------------------	------

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Cadmium Nitrate, tetrahydrate	10022-68-1	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Cadmium Nitrate, tetrahydrate
10022-68-1 (100)

WHMIS 2015 Hazard Classification
WHMIS 2015 classification information for Cadmium Nitrate (CAS no. 10325-94-7):Oxidizing solids - Category 3: H272 May intensify fire, oxidizer.; Acute toxicity - Oral - Category 3: H301 Toxic if swallowed. (toxicity of Cadmium compounds is related to the presence of Cd(2+) ion and classification is based on toxicity of this particular ion and accounts for data available for Cadmium compounds); Germ cell mutagenicity - Category 2: H341 Suspected of causing genetic defects. (toxicity of Cadmium compounds is related to the presence of Cd(2+) ion and classification is based on toxicity of this particular ion and accounts for data available for Cadmium compounds); Carcinogenicity - Category 1A: H350 May cause cancer. (toxicity of Cadmium compounds is related to the presence of Cd(2+) ion and classification is based on toxicity of this particular ion and accounts for data available for Cadmium compounds); Reproductive Toxicity - Category 2: H361 Suspected of damaging fertility or the unborn child. (toxicity of Cadmium compounds is related to the presence of Cd(2+) ion and classification is based on toxicity of this particular ion and accounts for data available for Cadmium compounds); Specific target organ toxicity - Repeated exposure - Category 1: H372 Causes damage to organs through prolonged or repeated exposure. (toxicity of Cadmium compounds is related to the presence of Cd(2+) ion and classification is based on toxicity of this particular ion and accounts for data available for Cadmium compounds)

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

WHMIS 1988 Hazard Class

For Cadmium nitrate (CAS no. 10325-94-7):

C Oxidizing materials
D1A Very 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

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Cadmium Nitrate, tetrahydrate	10022-68-1	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
------------	---------	------------------------------------

Product code: C1957

Product name: CADMIUM NITRATE
TETRAHYDRATE, REAGENT, ACS

12 / 14

Cadmium Nitrate, tetrahydrate	10022-68-1	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Cadmium Nitrate, tetrahydrate	10022-68-1	Not listed

EU Classification

EU GHS - SV - CLP 172/2008

Components	CAS-No.	EU GHS - SV - CLP (172/2008)
Cadmium Nitrate, tetrahydrate	10022-68-1	<p>Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification, except Cadmium sulphoselenide, reaction mass of Cadmium sulphide with Zinc sulphide, reaction mass of Cadmium sulphide with Mercury sulphide, and those specified elsewhere in this Annex);</p> <p>Acute toxicity - Dermal - Acute Tox. 4: H312 Harmful in contact with skin. (Minimum classification, except Cadmium sulphoselenide, reaction mass of Cadmium sulphide with Zinc sulphide, reaction mass of Cadmium sulphide with Mercury sulphide, and those specified elsewhere in this Annex);</p> <p>Acute toxicity - Inhalation - Acute Tox. 4: H332 Harmful if inhaled. (Minimum classification, except Cadmium sulphoselenide, reaction mass of Cadmium sulphide with Zinc sulphide, reaction mass of Cadmium sulphide with Mercury sulphide, and those specified elsewhere in this Annex);</p> <p>Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life. (except Cadmium sulphoselenide, reaction mass of Cadmium sulphide with Zinc sulphide, reaction mass of Cadmium sulphide with Mercury sulphide, and those specified elsewhere in this Annex);</p> <p>Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (except Cadmium sulphoselenide, reaction mass of Cadmium sulphide with Zinc sulphide, reaction mass of Cadmium sulphide with Mercury sulphide, and those specified elsewhere in this Annex)</p>

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

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

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Cadmium Nitrate, tetrahydrate	10022-68-1	Xn; R20/21/22 N; R50-53 (cadmium compounds)	0.1%≤C: Xn; 20/21/22 (cadmium compounds)	

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

Indication of danger:

Xn - Harmful.

N - Dangerous for the environment.

Xn



N



16. OTHER INFORMATION

Preparation Date: 5/17/2017
Revision Date: 5/17/2017
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