



## SAFETY DATA SHEET

Preparation Date: 5/17/2017 Revision Date: 5/17/2017 Revision Number: G1

## 1. IDENTIFICATION

**Product identifier** 

Product code: C1042

Product Name: CADMIUM NITRATE, CRYSTAL, PURIFIED

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:
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: <a href="https://www.spectrumchemical.com">https://www.spectrumchemical.com</a>
Chemtrec 1-800-424-9300

Emergency telephone numberChemtrec 1-800-424-9300Contact 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. CO 2 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

## 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/tachydardia, 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.

Product code: C1042 Product name: CADMIUM NITRATE,

CRYSTAL, PURIFIED

## 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

Product code: C1042 Product name: CADMIUM NITRATE, 4/14

CRYSTAL, PURIFIED

## **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/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)	None

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
			Columbia		
Cadmium Nitrate,	10022-68-1	0.01 mg/m <sup>3</sup> TWA (as	0.01 mg/m <sup>3</sup> TWA (as	0.01 mg/m <sup>3</sup> TWA (as	0.025 mg/m <sup>3</sup> TWAEV
tetrahydrate		Cd)	Cd); 0.002 mg/m <sup>3</sup>	Cd); 0.002 mg/m <sup>3</sup>	(as Cd)
		·	TWA (respirable	TWA (respirable	
			particulate matter, as	particulate matter, as	
			Cd)	Cd)	

## **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Cadmium Nitrate, tetrahydrate	10022-68-1	None	0.01 mg/m³ TWA (total dust as Cd); 0.002 mg/m³ 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** 

5/14

**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: Appearance: Color:

Solid Crystals. White. Off-white.

Odor: Taste Formula:

No information available. No information available. Cd(NO3)2.4H2O

Molecular/Formula weight: Flammability: Flashpoint (°C/°F):

No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 59.5 (°C)/139.1 (°F) No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

132 (°C)/269.6 (°F) No information available No information available

**Specific gravity:** pH: Vapor pressure @ 20°C (kPa): No information available No information available

110 mornation available 110 mornation available

**Evaporation rate:**Vapor density:
No information available
VOC content (g/L):
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility: Solubility:

No information available 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

<u>Conditions to avoid:</u> Exposure to moisture. Exposure to moist air. Incompatible materials. Contact with

combustible materials (wood, paper, oil, clothing, etc.).

Product code: C1042 Product name: CADMIUM NITRATE, 6 / 14

CRYSTAL, PURIFIED

**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 infomation available

Other LD50 or LC50information = 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

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. Prolon

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 tachydardia, 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.

Product code: C1042

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Cadmium Nitrate, tetrahydrate		Carcinogenic to Humans -	Carcinogen	Known human carcinogens (Cadmium and Cadmium	Present	Not listed	Not listed

**Product name:** CADMIUM NITRATE, CRYSTAL, PURIFIED

100C [2012];	compounds)	compounds)		
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)				

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

STOT - repeated exposure Target Organs:

No information available.

Causes damage to organs through prolonged or repeated exposure.

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

9/14

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 140

Number

Marine PollutantMarine PollutantDOT RQ (lbs):No information availableSpecial ProvisionsIB8, IP3, T1, TP33Symbol(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:

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:

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:

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: 5.7

Subsidiary Risk: No information available

Packing Group: III
Special Provisions 511

**Description:** UN1477, Nitrates, inorganic, n.o.s., 5.1, III

10/14

**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:

**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.
Cadmium Nitrate, tetrahydrate	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		Female Reproductive
				Toxicity	Toxicity:
Cadmium Nitrate, tetrahydrate	10022-68-1	carcinogen (cadmium and cadmium compounds)	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

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

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

#### 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

#### WHIMIS 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

Product code: C1042

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	

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	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);
		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); 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); 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); 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)048-001-00-5
		/ IIII GA JO TO 00 1 00-0

## 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	Safety Phrases
			Limits:	
Cadmium Nitrate,	10022-68-1	Xn; R20/21/22 N;	0.1%<=C: Xn;	
tetrahydrate		R50-53 (cadmium	20/21/22 (cadmium	
		compounds)	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.





## **16. OTHER INFORMATION**

Preparation Date: 5/17/2017
Revision Date: 5/17/2017
Prepared by: Sonia Owen

Disclaimer:

Product code: C1042

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**