# spectrum®



# SAFETY DATA SHEET

Preparation Date: 09/10/2019	Revision date 09/10/2019	Revision Number: G1		
1. IDENTIFICATION				
Product identifier				
Product code: Product Name:	C1051 CADMIUM SULFATE, HYDRATE, TECHNICAL			
Froduct Name.	CADMION SOLI ATE, TEDRATE, TECHNICAE			
Other means of identification Synonyms:	Cadmium sulfate octahydrate Sulfuric acid, cadmium salt, hydrate			
CAS #: RTECS # CI#:	7790-84-3 EV2850000 Not available			
Recommended use of the cher Recommended use: Uses advised against	mical and restrictions on use No information available. No information available			
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000			
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Tom Tyner (USA - West Coast) Ibad Tirmiz (USA - East Coast)			
	2. HAZARDS IDENTIFICATION			

### **Classification**

This chemical is considered hazardous by 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
Germ cell mutagenicity	Category 1A
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1

### Label elements

Danger

Hazard statements Fatal if inhaled Toxic if swallowed May cause genetic defects May cause cancer May damage fertility or the unborn child Causes damage to organs through prolonged or repeated exposure



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

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 Do not breathe dust Use only outdoors or in a well-ventilated area Wear respiratory protection

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical attention IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or 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 and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS No	Weight-%
Cadmium Sulfate, Hydrate	7790-84-3	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. First aider needs to protect himself. 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 Product code: C1051

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	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. 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 effe	cts, both acute and delayed
Symptoms	May cause eye/skin irritation May cause irritation of respiratory tract

 mptoms
 May cause eye/skin irritation

 May cause irritation of respiratory tract

 May cause coughing and shortness of breath

 Weakness

 Headache

 Fever

 Nausea

 Vomiting

 May cause diarrhea

 Dizziness

 Convulsions

 Seizures

### Indication of any immediate medical attention and special treatment needed

Notes to Physician:

Treat symptomatically.

### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### **5. FIRE-FIGHTING MEASURES**

Extinguishing Media	
Suitable Extinguishing Media:	The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous combustion products	Sulfur oxides. Metal oxides.
Specific hazards	May be combustible at high temperatures.
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)

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal Precautions:	Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering 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. 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. Keep away from incompatible materials.

### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. 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

Metals

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### National occupational exposure limits

### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Cadmium Sulfate,	7790-84-3	None	None	None	None
Hydrate					

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
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Cadmium Sulfate,	7790-84-3	None	None	None	None
Hydrate					

### Australia and Mexico

Component	CAS No	Australia	Mexico
Cadmium Sulfate, Hydrate	7790-84-3	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

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

### **Personal Protective Equipment**

Eye protection:	Goggles or Safety glasses with side-shields.
Skin and body protection:	Chemical resistant apron Gloves Long sleeved clothing
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. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance:	Color:
Solid	Crystals.	Colorless.
<b>Odor:</b>	<b>Taste</b>	Formula
No information available.	No information available.	CdSO4.8/3H2O
Molecular/Formula weight (g/mole):	Flammability (solid, gas)	Flashpoint (°C/°F):
256.52	no data available	No information available
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
<b>Upper Explosion Limit (%):</b>	Melting point/range(°C/°F):	<b>Decomposition temperature(°C/°F):</b>
No information available	108°C/ 226.4°F	No information available
Boiling point/range(°C/°F):	<b>Bulk density:</b>	<b>Density (g/cm3):</b>
765°C/ 1409°F	No information available	No information available
<b>Specific gravity:</b> 3.08	<b>pH</b> No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate:		

Product code: C1051

No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available Vapor density: No information available

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

Solubility: Soluble in Water Insoluble in Acetone Insoluble in Alcohol Insoluble in Ammonia Insoluble in Ethyl acetate **VOC content (g/L):** No information available

Viscosity: No information available

### **10. STABILITY AND REACTIVITY**

<u>Reactivity</u> No information available

Chemical stability	
Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Ignition sources. Incompatible materials.
Incompatible Materials:	Oxidizing agents Metals
Hazardous decomposition products:	Sulfur oxides. 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. Inhalation. Ingestion.

### **Acute Toxicity**

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

7790-84-3

Cadmium Sulfate, Hydrate CAS No

> LD50/oral/rat = No information available LD50/oral/mouse = 88 mg/kg Oral LD50 Mouse LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available

**LC50/inhalation/rat =** >0.0046 mg/l 3h Inhalation LC50 Rat **LC50/inhalation/mouse =** No information available **Other LD50 or LC50information =** No information available

### **Product Information**

LD50/oral/rat = Value - Acute Toxicity = 107 mg/kg

LD50/oral/mouse = Value - Acute Tox = 88 mg/kg

LD50/dermal/rabbit Value - Acute Toxicity = No information available

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

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = >0.0046 mg/l 3h

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. May cause metallic taste. Syminclude coughing and shortness of breath. May cause muscle weaknes cause pulmonary edema. May affect the kidneys. It may affect the live	ss. It may
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and di cause salivation. May affect behavior/central nervous system (dizzines headache). May affect behavior/central nervous system (convulsions/s May cause shock.	SS,
Aspiration hazard	No information available.	
Delayed and immediate effects	as well as chronic effects from short and long-term exposure	
Chronic Toxicity	Prolonged or repeated ingestion may affect the liver, and kidneys. Prol repeated ingestion may affect the urinary system. Prolonged or repeat may affect the blood (anemia). Prolonged or repeated inhalation may of bronchitis with coughing, phlegm, and/or shortness of breath. Prolonged repeated inhalation can irritate the lungs.	ed ingestion cause
Sensitization:	No information available.	
Mutagenic Effects:	May cause genetic defects	
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### Carcinogenic effects: May cause cancer.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Cadmium Sulfate, Hydrate	7790-84-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

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
	No. 1. Common Constanting Hall In

Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available

### Specific Target Organ Toxicity

STOT - single exposure	No information available.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Target Organs:	Liver, kidney, and respiratory system.

### **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available 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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Cadmium Sulfate, Hydrate	7790-84-3	None	None	None	None

### **14. TRANSPORT INFORMATION**

DOT UN-No: Proper Shipping Name: Hazard Class Subsidiary Class Packing group: Emergency Response Guide Number Marine Pollutant DOT RQ (lbs): Special Provisions Symbol(s): Description:	UN2570 Cadmium compounds 6.1 No information available III 154 Marine Pollutant No information available IB8, IP3, T1, TP33 No information available UN2570, Cadmium compounds, 6.1, III
TDG (Canada) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group: Marine Pollutant Description:	UN2570 Cadmium compound 6.1 No information available III Marine Pollutant UN2570, Cadmium compound, 6.1, III
ADR UN Number Proper Shipping Name: Transport hazard class(es) Packing group Subsidiary Risk: Special Provisions Description:	UN2570 Cadmium compound 6.1 III No information available 274, 596 UN2570, Cadmium compound, 6.1, III
IMDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant EMS: Special Provisions Description	UN2570 Cadmium compounds 6.1 No information available III Marine Pollutant F-A 223, 274 UN2570, Cadmium compound (CADMIUM SULFATE, HYDRATE), 6.1, III
RID UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Special Provisions Description:	UN2570 Cadmium compound 6.1 No information available III 274, 596 UN2570, Cadmium compound, 6.1, III
ICAO (air) UN-No: Proper Shipping Name: Hazard Class	UN2570 Cadmium compound 6.1

Product code: C1051

Product name: CADMIUM SULFATE, HYDRATE, TECHNICAL

Subsidiary Risk: Packing Group: Description: Special Provisions	No information available III UN2570, Cadmium compound, 6.1, III A3, A5
ΙΑΤΑ	
UN Number	UN2570
Proper Shipping Name:	Cadmium compound
Transport hazard class(es)	6.1
Subsidiary Risk:	No information available
Packing group	III
Precautionary Statements -	6L
Response	
Special Provisions	No information available
Description:	UN2570, Cadmium compound, 6.1, III

### **15. REGULATORY INFORMATION**

### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Cadmium Sulfate, Hydrate	7790-84-3	Not Listed	Not present	Present	Not present	Present	Present	Not present

### **U.S. Regulations**

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

<u>Chemicals Known to the State of California to Cause Cancer:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Cadmium Sulfate, Hydrate	7790-84-3	Not Listed	Not Listed	Not Listed	Not Listed

### **CERCLA/SARA**

Component	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 Sulfate, Hydrate	7790-84-3	None	None	None	None	None

### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Cadmium Sulfate, Hydrate	7790-84-3	Not Applicable	Not Applicable

### Canada

### WHIMIS 2015 - GHS Classifications

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

**Canada Hazardous Products Regulation** This product has not 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

### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Cadmium Sulfate, Hydrate	7790-84-3	Not Listed	Not Listed
Component		CAS No	CEPA Schedule I - Toxic Substances

Component	CAS No	CEPA Schedule I - Toxic Substances
Cadmium Sulfate, Hydrate	7790-84-3	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Cadmium Sulfate, Hydrate	7790-84-3	Not listed

### **EU Classification**

### EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Cadmium Sulfate, Hydrate	7790-84-3	

### EU - CLP (1272/2008)

### R-phrase(s)

- R26 Very toxic by inhalation
- R25 Toxic if swallowed
- R45 May cause cancer
- R63 Possible risk of harm to the unborn child
- R60 May impair fertility

### S -phrase(s)

- S 7 Keep container tightly closed.
- S 9 Keep container in a well-ventilated place.
- S36 Wear suitable protective clothing
- S38 In case of insufficient ventilation, wear suitable respiratory equipment

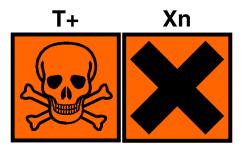
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Cadmium Sulfate, Hydrate	7790-84-3		No information	

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

### Indication of danger:

T+ - Very toxic Xn - Harmful



### **16. OTHER INFORMATION**

**Disclaimer:** 

Preparation Date:	09/10/2019
Revision date	09/10/2019
Prepared by:	Sonia Owen

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