

Classified according to WHMIS 2015

SECTION 1: Identification

1.1. Product Identifier

Trade Name or Designation: Cadmium Sulfate, 0.05% (w/v)

Product Number: R1707500

Other Identifying Product Numbers: R1707500-500A

1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

1.3. Details of the Supplier of the Safety Data Sheet

Company: Ricca Chemical Company Address: 448 West Fork Drive

Arlington, TX 76012 USA

Telephone: 888-467-4222

1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300 CHEMTREC (International) 1+ 703-527-3887

SECTION 2: Hazard(s) Identification

2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

This product is not categorized as hazardous in any GHS hazard class.

2.2. GHS Label Elements

Pictograms: None Required.

Signal Word: None Required.

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Hazard Statements: None Required.

Precautionary Statements: None Required.

2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

SECTION 3: Composition / Information on Ingredients

3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight CAS Nu	mber Weight%
Water	H₂O	18.01 g/mol 7732-18	3-5 99.95
Cadmium Sulfate Hydrate	3CdSO₄· 8H₂O	769.54 g/mol 7790-84	l-3 < 0.1

SECTION 4: First-Aid Measures

4.1. General First Aid Information

Eye Contact: May cause slight irritation.

Inhalation: Not expected to require first aid. If necessary, remove to fresh air.

Skin Contact: May cause slight irritation.

Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician.

4.2. Most Important Symptoms and Effects, Acute and Delayed

WARNING! Contains a minute amount of a known carcinogen. Avoid ingestion and contact with skin, eyes, or clothing. If ingested, dilute immediately with water or milk and induce vomiting. Call a physician. Wash areas of contact with plenty of water. For eyes, get medical attention. EYE CONTACT: May cause slight irritation. SKIN CONTACT: May cause slight irritation. CHRONIC EFFECTS / CARCINOGENICITY: Chronic exposure may affect kidneys and liver.

4.3. Medical Attention or Special Treatment Needed

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

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SECTION 5: Fire-Fighting Measures

5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

5.2. Specific Hazards Arising from the Substance or Mixture

Not considered to be a fire or explosion hazard.

5.3. Special Protective Equipment for Firefighters

Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Wear appropriate PPE for the size and nature of the spill. As a general rule, wear safety glasses and gloves.

6.2. Cleanup and Containment Methods and Materials

Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal. Do not flush to sewer. Dispose of in accordance with local regulations.

SECTION 7: Handling and Storage

7.1. Precautions for Safe Handling and Storage Conditions

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

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SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Cadmium Sulfate Hydrate (7790-8	84-3) PEL	USA	"5 μg/m³ TWA (See 29 CFR 1910.1027, as Cd); 2.5 μg/m³ Action Level (as Cd)" As Cadmium compounds [RR-00559-4]	U.S OSHA - Specifically Regulated Chemicals with PELs
Cadmium Sulfate Hydrate (7790-ł	34-3) TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cadmium Sulfate Hydrate (7790-ł	34-3) PEL	USA	"5 µg/m³ TWA (See 29 CFR 1910.1027, as Cd); 2.5 µg/m³ Action Level (as Cd)" As Cadmium compounds [RR-00559-4]	U.S OSHA - Specifically Regulated Chemicals with PELs
Cadmium Sulfate Hydrate (7790-ł	34-3) TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)
Cadmium Sulfate Hydrate (7790-ł	34-3) PEL	USA	"5 µg/m³ TWA (See 29 CFR 1910.1027, as Cd); 2.5 µg/m³ Action Level (as Cd)" As Cadmium compounds [RR-00559-4]	U.S OSHA - Specifically Regulated Chemicals with PELs
Cadmium Sulfate Hydrate (7790-ł	34-3) TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd); 0.002 mg/m³ TWA (respirable particulate matter, as Cd)" As Cadmium compounds [RR-00559-4]	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

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Cadmium Sulfate Hydrate (7790-84-3) PEL	USA	5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
		1910.1027, as Cd); 2.5	Chemicals with PELs
		μg/m³ Action Level (as Cd)	
Cadmium Sulfate Hydrate (7790-84-3) TLV-TWA	USA	0.01 mg/m³ TWA (as Cd);	ACGIH - Threshold Limit Values - Time
		0.002 mg/m ³ TWA	Weighted Averages (TLV-TWA)
		(respirable particulate	
		matter, as Cd)	
Cadmium Sulfate Hydrate (7790-84-3) TLV-TWA	USA	"0.01 mg/m3 TWA (as Cd);	ACGIH - Threshold Limit Values - Time
		0.002 mg/m ³ TWA	Weighted Averages (TLV-TWA)
		(respirable particulate	
		matter, as Cd)" As	
		Cadmium compounds	
		[RR-00559-4]	
Cadmium Sulfate Hydrate (7790-84-3) PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
		1910.1027, as Cd); 2.5	Chemicals with PELs
		μg/m³ Action Level (as Cd)"	
		As Cadmium compounds	
	LICA	[RR-00559-4]	ACGIH - Threshold Limit Values - Time
Cadmium Sulfate Hydrate (7790-84-3) TLV-TWA	USA	"0.01 mg/m³ TWA (as Cd);	
		0.002 mg/m³ TWA (respirable particulate	Weighted Averages (TLV-TWA)
		matter, as Cd)" As	
		Cadmium compounds	
		[RR-00559-4]	
Cadmium Sulfate Hydrate (7790-84-3) PEL	USA	"5 μg/m³ TWA (See 29 CFR	U.S OSHA - Specifically Regulated
		1910.1027, as Cd); 2.5	Chemicals with PELs
		μg/m³ Action Level (as Cd)"	
		As Cadmium compounds	
		[RR-00559-4]	

8.2. Exposure Controls

Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.

Respiratory Protection: Normal room ventilation is adequate.

Skin Protection: Chemical resistant gloves. **Eye Protection:** Safety glasses or goggles.

8.3. Personal Protective Equipment

Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

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SECTION 9: Physical and Chemical Properties

9.1. Basic Physical and Chemical Properties

Appearance: Colorless liquid

Physical State: Liquid

Odor: Data not available.

Odor Threshold: Data not available.

pH: Data not available.

Melting/Freezing Point: 0.0°C

Initial Boiling Point/Range: 100°C - 100°C

Flash Point: Data not available.

Evaporation Rate: Data not available.

Flammability: Data not available.

Flammability/Explosive Limits: Data not available.

Vapor Pressure: Data not available.

Vapor Density: Data not available.

Relative Density: 1.0

Solubility: Miscible

Partition Coefficient: Data not available.

Auto-Ignition Temperature: Data not available.

Decomposition Temperature: Data not available.

Viscosity: Data not available.

Explosive Properties: Data not available.

Oxidizing Properties: Data not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

10.2. Possibility of Hazardous Reactions

Data not available.

10.3. Conditions to Avoid and Incompatible Materials

Oxidizers (such as perchlorates, peroxides, permanganates, chlorates, and nitrates), metals, hydrogen azide, selenium, tellurium, zinc.

10.4. Hazardous Decomposition Products

Will not occur.

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SECTION 11: Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity - Oral Exposure:

Not applicable.

Acute Toxicity - Dermal Exposure:

Not applicable.

Acute Toxicity - Inhalation Exposure:

Not applicable.

Acute Toxicity - Other Information:

LD50, Oral, Rat: 280 mg/kg (Cadmium Sulfate), details of toxic effects not reported other than lethal dose value.

Skin Corrosion and Irritation:

Not applicable.

Serious Eye Damage and Irritation:

Not applicable.

Respiratory Sensitization:

Not applicable.

Skin Sensitization:

Not applicable.

Germ Cell Mutagenicity:

Not applicable.

Carcinogenicity:

Not applicable.

Reproductive Toxicity:

Not applicable.

Specific Target Organ Toxicity from Single Exposure:

Not applicable.

Specific Target Organ Toxicity from Repeated Exposure:

Not applicable.

Aspiration Hazard:

Not applicable.

Additional Toxicology Information:

Data not available.

SECTION 12: Ecological Information

12.1. Ecotoxicity

Not applicable.

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12.2. Persistence and Degradability

Data not available.

12.3. Bioaccumulative Potential

Data not available.

12.4. Mobility in Soil

Data not available.

12.5. Other Adverse Ecological Effects

Data not available.

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Data not available.

SECTION 14: Transportation Information

14.1. Transportation by Land-Department of Transportation (DOT, United States of America)

Not regulated according to DOT Regulations.

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14.2. Transportation by Air - International Air Transport Association (IATA)

Not regulated according to IATA Dangerous Goods Regulations.

14.3 Transportation of Dangerous Goods (TDG, Canada)

Not regulated according to TDG Regulations.

SECTION 15: Regulatory Information

15.1. Occupational Safety and Health Administration (OSHA) Hazards

Cadmium Sulfate Hydrate (CAS # 7790-84-3): "5 μ g/m3 TWA (See 29 CFR 1910.1027, as Cd); 2.5 μ g/m3 Action Level (as Cd)" As Cadmium compounds [RR-00559-4]

Cadmium Sulfate Hydrate (CAS # 7790-84-3): 5 µg/m3 TWA (See 29 CFR 1910.1027, as Cd); 2.5 µg/m3 Action Level (as Cd)

- 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances Not listed.
- 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals Not listed.

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15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Cadmium Sulfate Hydrate (CAS # 7790-84-3): "0.1 % de minimis concentration (includes any unique chemical substance that contains Cadmium as part of that chemical's infrastructure, listed under Chemical Category N078)" As Cadmium compounds [RR-00559-4]

Cadmium Sulfate Hydrate (CAS # 7790-84-3): 0.1 % de minimis concentration (includes any unique chemical substance that contains Cadmium as part of that chemical's infrastructure, listed under Chemical Category N078)

15.5. Massachusetts Right-to-Know Substance List

Cadmium Sulfate Hydrate (CAS # 7790-84-3): Carcinogen; Extraordinarily hazardous

15.6. Pennsylvania Right-to-Know Hazardous Substances

Water (CAS # 7732-18-5): "Present" As Ethyl alcohol and water [RR-00802-6]

Water (CAS # 7732-18-5): Present

Cadmium Sulfate Hydrate (CAS # 7790-84-3): "Environmental hazard" As Cadmium compounds [RR-00559-4]

Cadmium Sulfate Hydrate (CAS # 7790-84-3): "Present" As Cadmium compounds [RR-00559-4]

Cadmium Sulfate Hydrate (CAS # 7790-84-3): Environmental hazard

Cadmium Sulfate Hydrate (CAS # 7790-84-3): Environmental hazard; Special hazardous substance

Cadmium Sulfate Hydrate (CAS # 7790-84-3): Present

15.7. New Jersey Worker and Community Right-to-Know Components

Cadmium Sulfate Hydrate (CAS # 7790-84-3): "carcinogen" As Cadmium compounds [RR-00559-4]

Cadmium Sulfate Hydrate (CAS # 7790-84-3): "SN 2199 500 lb TPQ (Category Code N078. Includes any unique chemical substance that contains the named metal as part of that chemical structure)" As Cadmium compounds [RR-00559-4]

Cadmium Sulfate Hydrate (CAS # 7790-84-3): "sn 2199" As Cadmium compounds [RR-00559-4]

Cadmium Sulfate Hydrate (CAS # 7790-84-3): carcinogen

Cadmium Sulfate Hydrate (CAS # 7790-84-3): carcinogen; mutagen

Cadmium Sulfate Hydrate (CAS # 7790-84-3): sn 2199

Cadmium Sulfate Hydrate (CAS # 7790-84-3): SN 2199 500 lb TPQ (Category Code N078. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

Cadmium Sulfate Hydrate (CAS # 7790-84-3): sn 3073

15.8. California Proposition 65

Cadmium Sulfate Hydrate (CAS # 7790-84-3): "carcinogen, 10/1/1987" As Cadmium compounds [RR-00559-4]

Cadmium Sulfate Hydrate (CAS # 7790-84-3): carcinogen, 10/1/1987

15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Water (CAS # 7732-18-5): Present (DSL)

Cadmium Sulfate Hydrate (CAS # 7790-84-3): Present (DSL)

15.10. United States of America Toxic Substances Control Act (TSCA) List

All components of this solution are listed as active on the TSCA Inventory or are mixtures (hydrates) of active items listed on the TSCA Inventory.

Water (CAS # 7732-18-5): Present (ACTIVE)

Cadmium Sulfate Hydrate (CAS # 7790-84-3): Present (ACTIVE)

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15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Water (CAS # 7732-18-5): 231-791-2 Cadmium Sulfate Hydrate (CAS # 7790-84-3): 233-331-6

SECTION 16: Other Information

16.1. Full Text of Hazard Statements and Precautionary Statements

16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class: Not Applicable.

Physical Hazards Not Otherwise Classified (PHNOC): Not Applicable.

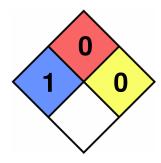
Health Hazards Not Otherwise Classified (HHNOC): Not Applicable.

Biohazardous Infectious Materials Hazard Class: Not Applicable.

16.3. National Fire Protection Association (NFPA) Rating

Health: 1
Flammability: 0
Reactivity: 0

Special Hazard:



16.4. Document Revision

Last Revision Date: 2023-10-11

DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.

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