

CADMIUM NITRATE, 0.1 NORMAL AQUEOUS SOLUTION

# Material Safety Data Sheet

Section 1: Chemical Product and Company Identification Catalog Number:						
1680						
Product Identity: CADMIUM NITRATE, 0.1 NORMAL AQUEOUS SOLUTION						
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC	Emergency Contact(24 hr) CHEMTREC® Domestic: 800-424-9300 International: 703-527-3887					
CAGE Code: 4TCW6, 0V553, 4XZQ2						
Address: 448 West Fork Dr Arlington, TX 76012	<b>Telephone Number For Information:</b> 817-461-5601					
Date Prepared: 5/25/99	<b>Revision:</b> 2 Last Revised: 09/13/2001 Date Printed: 10/01/2014 4:43:33 pm					

# Section 2. Composition/Information on Ingredients

Component	CAS Registry #	Concentration	ACGIH TLV	OSHA PEL
Cadmium Nitrate Tetrahydrate	10022-68-1	1-2	Not Available	Not Available
			Not Available	0.005 mg/m3
Water, Deionized	7732-18-5	Balance	Not Available	Not Available
			Not Available	Not Available

# Section 3: Hazard Identification

**Emergency Overview:** WARNING! Hazardous liquid. Contains a known carcinogen. Avoid ingestion and contact with skin, eyes, or clothing. If ingested, dilute with water and induce vomiting. Call a physician. Wash areas of contact with plenty of water. For eyes, get medical attention.

Target Organs: eyes, skin, lungs, blood, kidneys, prostate, liver.

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: Hazard by inhalation of dust and fumes is greatly reduced due to the low concentration of Cadmium Nitrate present. The toxic symptoms of acute exposure may cause coughing, tightness in chest, respiratory distress, congestion of the lungs.

Skin Contact: May cause irritation, redness, and pain.

Ingestion: Toxic effects are not expected to be as severe as higher concentrations. Toxic effects of acute exposure may include nausea, vomiting, diarrhea, abdominal pain, muscular ache, salivation and shock. Cadmium is a poison that accumulates in the liver and kidneys.

Chronic Effects/Carcinogenicity: Chronic poisoning can lead to liver and kidney damage.

IARC - Cadmium Nitrate Tetrahydrate is carcinogenic to humans. Cadmium Nitrate Tetrahydrate is carcinogenic to humans.

**NTP** - Cadmium Nitrate Tetrahydrate - Substances or groups of substances, and medical treatments that are known to be carcinogenic. Cadmium Nitrate Tetrahydrate - Substances or groups of substances, and medical treatments that are known to be carcinogenic. **OSHA** - Yes.



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Reproductive Information: Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Cadmium Nitrate Tetrahydrate. Reproductive effects cited in 'Registry of Toxic Effects of Chemical Substances' for Cadmium Nitrate Tetrahydrate. Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Cadmium Nitrate Tetrahydrate. Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Cadmium Nitrate Tetrahydrate.

# Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contaminated clothing. Wash with soap and water, then flush again with water. Call a physician if irritation develops.

Ingestion: Dilute immediately with water or milk. Induce vomiting. Call a physician. See 29 CFR 1910.1027, Appendix A for additional treatment information.

#### **Section 5: Fire Fighting Measures**

Flash Point: Not Available.
LFL: Not Available.
Extinguishing Media: Use any means suitable for extinguishing surrounding fire.
Fire & Explosion Hazards: Not considered to be a fire or explosion hazard.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

# Section 6: Accidental Release Measures

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

#### Section 7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. **Safety Storage Code:** Health

### Section 8: Exposure Control/Personal Protection

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.

# Section 9: Physical and Chemical Properties

Appearance: Clear, colorless liquid Odor: Odorless Solubility in Water: Infinite Specific Gravity: Approximately 1 pH: Not Available.
Boiling Point(°C): Approximately 100
Melting Point(°C): Approximately 0
Vapor Pressure: Not Applicable.

# Section 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatibility: Reducing agents, Hydrides, Halogens, combustible material, Zinc, Selenium, Tellurium and Hydrogen Azide. Hazardous Decomposition Products: Emits highly toxic fumes of Nitrogen Oxides and Hydrogen Nitrate when heated to decomposition. Hazardous Polymerization: Will not occur.

Method Used: Not Available. UFL: Not Available.



**MSDS** 

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# Section 11. Toxicological Information

LDLo, Oral, Human: 300 mg/kg (Cadmium Nitrate) details of toxic effects not reported other than lethal dose value .

#### Section 12. Ecological Information

Ecotoxicological Information: Cadmium and its compounds have high acute and chronic toxicity to aquatic life. Cadmium toxicity is influenced by water hardness in fresh water. The harder the water, the lower the toxicity.

Chemical Fate Information: Cadmium is highly persistent in water with a half-life of greater than 200 days. This material is expected to significantly

bioaccumulate.

## Section 13. Disposal Considerations

Do not flush to sewer. Absorb with suitable material and save for disposal with a RCRA approved hazardous waste disposal facility .

#### Section 14. Transport Information

Part Numbers:

This product is not regulated.

## Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material. TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory. Sore Title III:

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Catagories: Acute, Chronic: Yes Fire, Pressure, Reactivity: No

Section 313 Toxic Chemicals:Not Applicable.

#### California: None Reported.

Pennsylvania: Cadmium Nitrate Tetrahydrate is listed as both Special and Environmental Hazards on the state 's Hazardous Substances List. Cadmium Nitrate Tetrahydrate is listed as both Special and Environmental Hazards on the state 's Hazardous Substances List.

#### RCRA Status: Not Applicable.

CERCLA Reportable Quantity: Cadmium Nitrate Tetrahydrate - 10 pounds. Cadmium Nitrate Tetrahydrate - 10 pounds.

WHMIS: D-2B: Poisonous and Infectious Material. Materials causing other toxic effects - Toxic Material.



# Section 16. Other Information

#### NFPA Ratings:

 
 Health: 1
 Flammability: 0
 Reactivity: 0
 Special Notice Key:None

 HMIS Ratings: Health: 1
 Flammability: 0
 Reactivity: 0
 Protective Equipment:B (Protective Eyewear, Gloves)

Rev 1, 11-8-2000: Reformatted from WordPerfect® to Microsoft Word®; (Section 1) Revised emergency telephone number to CHEMTREC® 800-424-9300, removed catalog number 1679; (Section 2) revised concentration from 0.15 - 1.5; removed OSHA PEL reference to Cadmium; (Section 3) corrected OSHA carcinogenicity to Yes; added reproduction information; (Section 15) added TSCA statement regarding hydrates. Rev 2, 10-09-2001: Reformatted to electronic data format.



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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.