



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Cadmium Acetate Dihydrate**

PRODUCT NUMBER: 1324

CAS NUMBER: 5743-04-4

SYNONYMS: Cadmium diacetate dihydrate

### MANUFACTURER:

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**DANGER**

### Hazard Statements

H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H372	Causes damage to organs (Bone, Kidney) through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H302 + H312 + H332	Harmful if swallowed, in contact with skin, or by inhalation.

### Precautionary Phrases

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P363	Was contaminated clothing before reuse.

### HMIS CLASSIFICATION:

Health: 2 Fire: 1 Reactivity Hazard: 1

### NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

**EYE CONTACT:** May cause eye irritation.

**SKIN CONTACT:** Harmful in contact with skin.

**INHALATION:** Harmful if inhaled.

**INGESTION:** Harmful if swallowed.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $\text{Cd}(\text{CH}_3\text{COO})_2 \cdot 2\text{H}_2\text{O}$

Molecular Weight: 266.53

CHEMICAL NAME	CAS#	%
Cadmium Acetate Dihydrate	5743-04-4	100

## SECTION 4 FIRST AID MEASURES

**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove to fresh air and keep at rest. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not available

**AUTO IGNITION TEMPERATURE:** Not available

**EXPLOSION LIMITS:** Not available

**EXTINGUISHING MEDIUM:** Use carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Carbon oxides and cadmium oxide

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid dust formation. Avoid breathing dust.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Sweep up and place in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Handle under protective gas.

## SECTION 7 HANDLING AND STORAGE (Cont.)

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Hygroscopic. Protect from humidity and water.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Cadmium Acetate Dihydrate	0.005 mg/m <sup>3</sup>	PEL	OSHA
	0.002 mg/m <sup>3</sup>	TLV	ACGIH

TLV: Threshold Limit Value over 8 hours of work.

PEL: Permissible Exposure Limit

**EYE PROTECTION:** Wear chemical safety glasses or goggles and face shield.

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

**VENTILATION:** Provide local exhaust, preferably mechanical.

**RESPIRATOR:** Use an approved respirator.

**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** White solid

**ODOR:** None

**MOLECULAR WEIGHT:** 266.53

**BOILING POINT:** No data available

**MELTING POINT:** 130° C (dec.)

**SPECIFIC GRAVITY:** 2.01

**VAPOR DENSITY:** No data available

**SOLUBILITY IN WATER:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Reacts with strong oxidizing agents.

**INCOMPATIBILITY:** Water, moisture, and oxidizing agents.

**DECOMPOSITION PRODUCTS:** Carbon oxides and cadmium oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 360 mg/kg

**CARCINOGENIC EFFECTS:** Carcinogen to humans

**MUTAGENIC EFFECTS:** Not available

**TETRAOGENIC EFFECTS:** Not available

**CHRONIC TOXICITY:** Not available

**RTECS:** AF7505000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

**TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES:** static test LC50 – Daphnia magna (water flea) – 0.038 mg/l – 48 h.

Very toxic to aquatic organisms

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

**DOT:** UN2570

Cadmium compounds  
(Cadmium Acetate Dihydrate)  
CLASS 6.1  
PG III

**IATA:** UN2570

Cadmium compound  
(Cadmium Acetate Dihydrate)  
CLASS 6.1  
PG III

Marine Pollutant: No

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed

**SARA (TITLE 313):** Cadmium Acetate Dihydrate

**NEW JERSEY RIGHT TO KNOW:** Cadmium Acetate Dihydrate.

**PENNSYLVANIA RIGHT TO KNOW:** Cadmium Acetate Dihydrate.

**ILLINOIS RIGHT TO KNOW:** Cadmium Acetate Dihydrate.

**RHODE ISLAND RIGHT TO KNOW:** Cadmium Acetate Dihydrate.

**CALIFORNIA PROP. 65:** Not Listed

## SECTION 16 OTHER INFORMATION

**DISCLAIMER:** The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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SDS DEPT.