

Section 1 - Chemical Product and Company Identification

Product Name Cadmium Acetate Dihydrate pure, 98%
Product Code 82749
CAS No 5743-04-4
Company Name Sisco Research Laboratories Pvt. Ltd.
Address 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,
Andheri (E), Mumbai - 400 099, India

Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
5743-04-4	Cadmium acetate dihydrate	<=100	unlisted

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Harmful by inhalation, in contact with skin and if swallowed. May cause cancer. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye: May cause eye irritation.
Skin: May cause skin irritation. Harmful if absorbed through the skin.
Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.
Inhalation: Harmful if inhaled. May cause respiratory tract irritation.
May cause lung damage. May cause kidney damage.
Chronic: May cause cancer in humans.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Ingestion: Get medical aid. Wash mouth out with water.
Inhalation: Remove from exposure and move to fresh air immediately.
If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Control / Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 5743-04-4:
United Kingdom, WEL - TWA: (cadmium compounds):
0.025 mg/m³ TWA (except cadmium oxide fume, cadmium sulphide, cadmium sulphide p
United Kingdom, WEL - STEL: (cadmium compounds):
0.075 mg/m³ STEL (except cadmium oxide fume, cadmium sulphide, cadmium sulphide
United States OSHA: 2.5 æg/m³ Action Level (as Cd); 5 æg/m³ PEL (as Cd. Do not eat, drink or chew t obacco or gum or apply cosmetics in regulated areas. Carcinogen: dust can cause lung and kidney disease. See 29 CFR 1910.1027) (Cadmium compounds).
Belgium - TWA: (cadmium compounds): 0.002 mg/m³
VLE (respirable particulates, as Cd); 0.01 mg/m³ VLE (inhalable part
France - VME: (cadmium compounds): 0.05 mg/m³ VME (as Cd)
Germany: (cadmium compounds): 0.05 mg/m³ VME (as Cd)Japan: (cadmium compounds): 0.05 mg/m³ OEL (as Cd) Malaysia: (cadmium compounds): 0.01 mg/m³
TWA (as Cd); 0.002 mg/m³ TWA (respirable fraction, as Cd)
Netherlands: (): 0.005 mg/m³ MAC (as Cd) Russia: ():

Safety Data Sheet

0.01 mg/m³ TWA (aerosol)

Spain: (cadmium compounds): 0.01 mg/m³ VLA-ED (inhalable fraction, except cadmium sulfoselenide and cadmium

Personal Protective Equipment

Eyes: Wear chemical splash goggles.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Crystals
Color: white
Molecular Formula: C₄H₆CdO₄·2H₂O
Molecular Weight: 266.53

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Hygroscopic:
Absorbs moisture or water from the air.

Conditions to Avoid: Incompatible materials, exposure to moist air or water.

Incompatibilities with

Other Materials: Strong oxidizing agents, strong acids, strong bases.

Hazardous Decomposition

Products: Carbon monoxide, carbon dioxide, toxic cadmium oxide fumes.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 5743-04-4: AF7505000
LD50/LC50: RTECS:
CAS# 5743-04-4: Oral, rat: LD50 = 360 mg/kg;
Carcinogenicity: Cadmium acetate dihydrate - California: carcinogen, initial date 10/1/87 (Cadmium compounds). NTP: Known carcinogen (Cadmium compounds). IARC: Group 1 carcinogen (Cadmium compounds). **Other:** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA Shipping Name: Cadmium Compound	IMO Cadmium Compound	RID/ADR Cadmium Compound
Hazard Class: 6.1	6.1	6.1
UN Number: 2570	2570	2570
Packing Group: III	III	III

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases: R 45 May cause cancer. R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed. R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: S 53 Avoid exposure - obtain special instructions before use. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 60 This material and its container must be disposed of as hazardous waste. S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection) CAS# 5743-04-4: Not available

US Federal

TSCA CAS# 5743-04-4 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the Inventory (40CFR720.3(u)(2)).

Section 16 - Other Information

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.