



Section 1 - Chemical Product and Company Identification

Product Name	Cadmium Sulphate 8/3Hydrate ACS, 98%
Product Code	43019
CAS No	7790-84-3
Use for	Laboratory Chemicals.
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#
7790-84-3	Cadmium sulfate	<=100	unlisted

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Toxic if swallowed. Very toxic by inhalation. May cause cancer. May cause heritable genetic damage. Toxic : danger of serious damage to health by prolonged exposure through inhalation and if swallowed. May impair fertility. May cause harm to the unborn child. 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. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Poison by ingestion. Ingestion of large amounts may cause nausea, vomiting, diarrhea, and abdominal discomfort.

Inhalation: May cause respiratory tract irritation. May cause dyspnea (difficult or labored breathing). Toxic if inhaled. Inhalation may produce coughing, nausea, and pulmonary edema.

Chronic: May cause respiratory tract cancer. Repeated inhalation may cause chronic bronchitis. Prolonged or repeated exposure may cause permanent bone structure abnormalities. May cause liver and kidney damage. May cause anemia and other blood cell abnormalities. Chronic inhalation may cause pulmonary emphysema. Chronic inhalation may cause pulmonary fibrosis. Inhalation of dust may cause chronic rhinitis (inflammation of the mucous membrane of the nose).

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.



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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. Substance is noncombustible. Dangerous fire hazard in the form of dust when exposed to heat or flame.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

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. Avoid generating dusty conditions.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. 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



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Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 7790-84-3:

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)

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

CAS# 10124-36-4:

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)

Spain: 0.01 mg/m³ VLA-ED (inhalable fraction, as Cd); 0.002 mg/m³ VLA-ED (respirable fr

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



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Product Code	43019
Physical State:	Crystals
Color:	white
Odor:	odorless
pH:	4.5-6.0 (5% aq.sol.)
Solubility in water:	1130 g/l (20°C)
Specific Gravity/Density:	
Molecular Formula:	Cd3O12S3.8H2O
Molecular Weight:	769.53

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

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

Incompatibilities with Other Materials Metals, metals, zinc, selenium, tellurium, hydrogen azide.

Hazardous Decomposition Products Oxides of sulfur, toxic gases, toxic cadmium oxide fumes.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7790-84-3: EV2850000
CAS# 10124-36-4: EV2700000

LD50/LC50: RTECS: Not available. RTECS:
CAS# 10124-36-4: Oral, mouse: LD50 = 47 mg/kg;
Oral, rat: LD50 = 280 mg/kg;

Other: Oral, rat : LD50 = 280 mg/kg

Carcinogenicity: Cadmium sulfate, 8/3-hydrate - California: carcinogen, initial date 10/1/87 (Cadmium compounds).
NTP: Known carcinogen (Cadmium compounds). IARC: Group 1 carcinogen (Cadmium compounds).
Cadmium sulfate - California: carcinogen, initial date 10/1/87 (Cadmium compounds). NTP: Known carcinogen
(Cadmium compounds). IARC: Group 1 carcinogen

Other: See actual entry in RTECS for complete information. Possible mutagen.

Section 12 - Ecological Information

Ecotoxicity: Daphnia: EC50 = 0.0050 mg/l; 96H;

Other: Avoid entering into waters or underground water. 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



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Product Code	43019			
IATA	IMO	RID/ADR		
Shipping Name:	CADMIUM COMPOUND		CADMIUM COMPOUND	CADMIUM
COMPOUND				
Hazard Class:	6.1	6.1	6.1	
UN Number:	2570	2570	2570	
Packing Group:	III	III	III	

Severe Marine Pollutant

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 46 May cause heritable genetic damage.

R 61 May cause harm to the unborn child.

R 25 Toxic if swallowed.

R 26 Very toxic by inhalation.

R 48/23/25 Toxic : danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 60 May impair fertility.

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# 7790-84-3: Not available

CAS# 10124-36-4: 3

Canada

CAS# 10124-36-4 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7790-84-3 is not listed on the TSCA Inventory. It is for research and development use only.

CAS# 10124-36-4 is listed on the TSCA Inventory.

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.