



Material Safety Data Sheet

Cadmium chloride, anhydrous, 99%

Section 1 - Chemical Product and Company Identification

MSDS Name: Cadmium chloride, anhydrous, 99%

Catalog Numbers: 21914-0000, 21914-0100, 21914-1000, 21914-5000, 29633-0000, 29633-0050, 29633-0250, 31527-0000, 31527-0050, 31527-1000

Synonyms:

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaan 3a
2440 Geel, Belgium

Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
10108-64-2	Cadmium chloride, anhydrous	99%	233-296-7

Hazard Symbols:

T+ N



Risk Phrases:

45 46 60 61 25 26 48/23/25 50/53

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 gastrointestinal irritation with nausea, vomiting and diarrhea. Toxic if swallowed.

Inhalation: May be fatal if inhaled. Causes respiratory tract irritation. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema.

Chronic: May cause respiratory tract cancer. May cause liver and kidney damage. Chronic inhalation may cause nasal septum ulceration and perforation. May cause cancer in humans.

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. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

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:

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.

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. Wear a self contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Avoid generating dusty conditions. Remove all sources of ignition.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Keep away from heat, sparks and flame. Do not get on skin or in eyes. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: Keep away from sources of ignition. Store in a cool, dry place. Do not store in

direct sunlight. Store in a tightly closed container. Keep under a nitrogen blanket.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 10108-64-2:

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 impervious gloves.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

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

Respirators: approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: white

Odor: Not available

pH: Not available
Vapor Pressure: 13mbar @656 deg C
Viscosity: Not available
Boiling Point: 960 deg C @760mmHg (1,760.00°F)
Freezing/Melting Point: 568 deg C (1,054.40°F)
Autoignition Temperature: Not available
Flash Point: Not available
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: 1400 g/l water (20°C)
Specific Gravity/Density:
Molecular Formula: CdCl₂
Molecular Weight: 183.31

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, dust generation, exposure to moist air or water.
Incompatibilities with Other Materials: Oxidizing agents, active metals, aluminum, bromine trifluoride, zinc, potassium.
Hazardous Decomposition Products: Cadmium fumes, chloride fumes.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#: CAS# 10108-64-2: EV0175000

RTECS:
CAS# 10108-64-2: Oral, mouse: LD50 = 60 mg/kg;
LD50/LC50: Oral, mouse: LD50 = 3.3 mg/kg;
Oral, rat: LD50 = 88 mg/kg;

Cadmium chloride, anhydrous - California: carcinogen, initial date 10/1/87 (Cadmium compounds). NTP: Known carcinogen (Cadmium compounds).
Carcinogenicity: IARC: Group 1 carcinogen

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

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

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

Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	CADMIUM COMPOUND(forbidden to ship via passenger air)	CADMIUM COMPOUND	CADMIUM COMPOUND
Hazard Class:	6.1	6.1	6.1
UN Number:	2570	2570	2570
Packing Group:	I	I	I

USA RQ: CAS# 10108-64-2: 10 lb final RQ; 4.54 kg final RQ

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# 10108-64-2: Not available

Canada

CAS# 10108-64-2 is listed on Canada's DSL List

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US Federal

TSCA

CAS# 10108-64-2 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/16/1996

Revision #2 Date 2/18/2004

Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
