

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Cadmium chloride

CAS number 7790-78-5

Synonyms Cadmium dichloride

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute oral toxicity

Acute Inhalation Toxicity - Dust and Mists

Germ Cell Mutegenicity

Category 1B

Carcinogenicity

Category 1A

Reproductive Toxicity

Specific target organ toxicity - (repeated exposure)

Target Organs - Liver, Kidney, Blood.

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2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word Danger

Hazard statements Toxic if swallowed. Fatal if inhaled. May cause genetic defects. May

cause cancer. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

Prevention: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Use personal protective equipment thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection.

Response: IF exposed or concerned: Get medical attention/advice.

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Immediately call a POISON CENTER or

doctor/physician.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician. Rinse mouth.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly

closed.

Disposal: Dispose of contents/container to an apporved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Very toxic to aquatic life with long lasting effects.

WARNING. Cancer - https://www.p65warnings.ca.gov/.

SECTION 3: Composition/information on ingredients

3.1 Components

	Chemical name	Common name and synonyms	CAS number	Concentration
ſ	Cadmium chloride	Cadmium dichloride	7790-78-5	>99%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

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If inhaled Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-

to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the air of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediate

medical attention is required.

In case of eye contact
In the case of contact with eyes, rinse immediately with plenty of water and seek

medical advice. Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes.

If swallowedDo NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

None reasonable foreseeable.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media No information available.

Unsuitable extinguishing media No information available.

5.2 Specific hazards arising from the substance or mixture

Do not allow run-off from fire-righting to enter drains or water courses.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

5.4 Further information

Flash Point No data available.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.

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Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge NFPA No data available. No information available. No information available.

Health	Flammability	Instability	Physical hazards
4	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Keep people away form and upwind of spill/leak. Evacuate personnel to safe areas.

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Do not flush into surface water of santiary sewer system.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed then seek immediate medical assistance.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep containers tightly closed in dry, cool and well-ventilated place.

Incompatibilities

No information available.

SECTION 8: Exposure controls/personal protection

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8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

No information available.

US. ACGIH Threshold Limit Values

Component	Type	Value
Cadmium chloride	TWA	0.01 mg/m3
Cadmium chionde	TWA	0.002 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Cadmium chloride	IDLH	9 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, espicially in confined areas.

Personal protective equipment

Eye/face protection

Wear appropriate protective eyeglasses or chemical safet goggles as described by OSHA's eye and face regulations in 19 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

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.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance White

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Odor Odorless

Odor Threshold No information available. PH No information available.

Melting Point/Range 568 °C / 1054.4 °F

Boiling Point/Range 960 °C / 7160 °F @ 760 mmHg

Evaporation Rate No information available. Flammability (solid) No information available.

Flammability or explosive limit

Upper No data available.
Lower No data available.
Vapor Pressure 10 mmHg @ 656 °C
Vapor Density No information available.

Density 4.05 @ 25 °C Solubility Soluble in water. Partition coefficient; n-octanol/water No data available.

Autoignition Temp

Decomposition Temp

Viscosity

No information available.

No information available.

No information available.

Molecular Formula CdCl2 Molecular Weight 183.31

VOC Content(%) No information available.

Oxidizing properties No information available.

9.2 Other safety information

No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incompatible products.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cadmium chloride	88 mg/kg (rat)	-	-

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Cadmium chloride	10108-64-2	Not listed				

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

Liver, Kidney, Blood.

Reproductive toxicity

No information available.

Chronic effects

No information available.

11.2 Additional Information

No information available.

SECTION 12: Ecological information

12.1 Toxicity

The product contains following substances which are hazardous for the environment. Very toxic to aquatic organism, may cause long-term adverse effects in the aquatic environment.

Product		Species	Test Results	
	EC50	Freshwater Algae	3.7 mg/L 96 h	
	LC50	Freshwater Fish	0.0409 mg/L 96 h	

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	EC50	Photobacterium phosphoreum	17 mg/L 15 min
Cadmium chloride	EC50	Photobacterium phosphoreum	5.4 mg/L 30 min
	EC50	Photobacterium phosphoreum	98 mg/L 5 min
	EC50	Water Flea	0.012 - 0.054 mg/L 48 h

12.2 Persistence and degradability

May persist.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility. Log Pow: 5

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

The toxicological properties have not been fully investigated.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-No UN2570

Proper Shipping Name CADMIUM COMPOUNDS

Hazard Class 6.1 Packing Group

IMDG

UN-No UN2570

Proper Shipping Name CADMIUM COMPOUNDS

Hazard Class 6.1
Packing Group

IATA

UN-No UN2570

Proper Shipping Name CADMIUM COMPOUNDS

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SECTION 15: Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Listed, 10 lb.

SARA 304 Emergency release notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Listed: 5 µg/m3 TWA, 2.5 µg/m3 Action Level

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Listed, Weight: >99%, Threshold Values %: 0.1

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Listed, Hazardous Substances, 10 lb.

FEMA Priority Substances Respiratory Health and Safety in the Flavor

Manufacturing Workplace

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Listed.

US. New Jersey Worker and Community Right-to-Know Act

Listed.

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US. Pennsylvania Worker and Community Right-to-Know Law Listed.

California Proposition 65

Listed, Carcinogen.

SECTION 16: Other information

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Revision: 0

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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