



Section 1 - Chemical Product and Company Identification

Product Name	Cadmium Chloride Monohydrate pure, 98%
Product Code	48076
CAS No	35658-65-2
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

Chemical characterization:

CAS No. Description

35658-65-2 Cadmium chloride monohydrate

Identification number(s)

EINECS Number: 233-296-7

EU Number: 048-008-00-3

Section 3 - Hazards Identification

Hazard description:

T Toxic

N Dangerous for the environment

Information concerning to particular hazards to man and environment:

R 45 May cause cancer.

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.

Section 4 - First Aid Measures

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact:

Rinse opened eye for several minutes under running water.

After swallowing: If some symptoms persist seek for medical advice.

Section 5 - Fire Fighting Measures



Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards caused by the substance, its products of combustion or

resulting gases:

Formation of toxic gases is possible during heating or in case of fire.

Fumes with metal oxides.

Protective equipment: No special measures required.

Section 6 - Accidental Release Measures

Person-related safety precautions:

Use respiratory protective device against the effects of fumes/dust/aerosol.

Measures for environmental protection:

Inform respective authorities in case of seepage into water course or sewage system.

Measures for cleaning/collecting:

Dispose contaminated material as waste according to item 13.

Pick up mechanically.

For fine dusts use a vacuum cleaner.

Section 7 - Handling and Storage

Handling:

Information for safe handling:

Keep receptacles non in use, tightly sealed.

Provide suction extractors if dust is formed.

Prevent formation of aerosols.

Information about fire - and explosion protection:

No special measures required.

Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Use polyethylene receptacles.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Section 8 - Exposure Control / Personal Protection

Additional information about design of technical facilities:



No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

TLV not established.

Additional information:

The lists valid during the making were used as basis.

Personal protective equipment: -

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter P3, in case of dust-producing handlings.

Protection of hands: Protective gloves

Material of gloves Rubber gloves

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

Section 9 - Physical and Chemical Properties

Molecular weight

Form: Granulate

Colour: White

Odour: Odourless

Value/Range Unit Method

Change in condition

Melting point/Melting range: 150-158 °C

Boiling point/Boiling range: 960 °C

Section 10 - Stability and Reactivity



Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Dangerous reactions

Reacts with peroxides and other radical forming substances.
Catalytic decomposition of hydrogen peroxide.

Dangerous decomposition products:

No decomposition products known, more dangerous than the product as such.

Section 11 - Toxicological Information

Acute toxicity:

LD/LC50 values relevant for classification:

Cadmium chloride

Oral: LD50: 88 mg/kg (rat)

Inhalative: LC50/4 h: 2.3 mg/l (mouse)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No relevant irritating effects.

Sensitization: No sensitizing effects known.

Other information (about experimental toxicology):

No more relevant data available.

Additional toxicological information: Carcinogenic.

Section 12 - Ecological Information

Information about elimination (persistence and degradability):

Other information: No available data.

Ecotoxicological effects:

Aquatic toxicity:

Cadmium chloride

LC50 aq.: (48h) >0.065 mg/l (Daphnia)

LC50 aq.: (96h) 0.43 mg/l (fishes)

General notes: Also poisonous for fish and plankton in water bodies.

Section 13 - Disposal Considerations

Product:

Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Reutilise if possible or contact a waste processors for recycling or safe disposal.

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.
Wash with water to be treated before disposal.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

Section 14 - Transport Information

Shipping name: CADMIUM CHLORIDE

Hazard Class - 6.1

UN Number - 2570

Packing Class - III

Section 15 - Regulatory Information

Labelling according to EU guidelines:

The product has been classified and marked in accordance with EC Directives / hazardous materials legislation / dir. 67/548 28° adaptation / dir. 88/379 4° adaptation.

Code letter and hazard designation of product:

T Toxic N Dangerous for the environment

Risk phrases:

45 May cause cancer.

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

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

Safety phrases:

53 Avoid exposure - obtain special instructions before use.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

60 This material and its container must be disposed of as hazardous waste.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

National regulations:

Additional classification according to Decree on Hazardous Materials,

Annex II:

Carcinogenic hazardous material group II (very dangerous).

Other regulations, limitations and prohibitive regulations

Maximum allowed concentration in waste water (Italian regulation): 0.02 (Cd)



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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.