

**MATERIAL SAFETY DATA SHEET****Product Name:** Cadmium chloride monohydrate**CAS No.:** 35658-65-2 **Version:** 0**1. Identification**

**Product Code** : 90134  
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**2. Hazards Identification****Hazard classification**

Acute toxicity, Oral : Category 4  
Acute toxicity, Inhalation : Category 2  
Acute toxicity, Dermal : Category 4  
Germ cell mutagenicity : Category 2  
Carcinogenicity : Category 1B  
Reproductive toxicity : Category 2  
Specific target organ toxicity -  
repeated exposure : Category 1  
Acute aquatic toxicity : Category 1  
Chronic aquatic toxic : Category 1

**Label elements****Hazard symbol**

**Signal word** : Danger  
**Hazard statement** : Harmful if swallowed or in contact with skin  
Fatal if inhaled.  
Suspected of causing genetic defects.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
Causes damage to organs through prolonged or repeated  
exposure.  
Very toxic to aquatic life with long lasting effects.  
**Precautionary statement** : Obtain special instructions before use.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Avoid release to the environment.  
IF INHALED: Remove person to fresh air and keep

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comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
IF exposed or concerned: Get medical advice/ attention.  
Store in a well-ventilated place. Keep container tightly closed.

**Other hazards which do not result in GHS classification** : None

**3. Composition/information on ingredients**

<b>Ingredient</b>	<b>CAS No</b>	<b>Percent</b>
Cadmium chloride monohydrate	35658-65-2	NLT- 98.0%

**4. First Aid Measures****Description of first aid measures**

- General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation** : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin contact** : Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
- Eye contact** : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Swallowed** : Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
- Most important symptoms and effects, both acute and delayed** : The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11
- Indication of any immediate medical attention and special treatment needed Treatment** : No data available

**5. Fire fighting measures****Extinguishing media**

- Suitable extinguishing media** : Use extinguishing media appropriate to Surrounding fire conditions.
- Special hazards arising from the substance or mixture** : Nature of decomposition products not known.
- Advice for firefighters** : Wear self contained breathing apparatus for fire fighting if necessary

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- Personal precautions, protective equipment and emergency procedures** : Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- Methods and materials for containment and cleaning up** : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- Reference to other sections** : For disposal see section 13.

**7. Handling and Storage**

- Precautions for safe handling** : Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.  
Provide appropriate exhaust ventilation at places where dust is formed.
- Conditions for safe storage, including any incompatibilities** : Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Non-combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials
- Specific end use(s)** : No data available

**8. Exposure Controls Personal Protection****Control parameters****Components with workplace control parameters****Exposure controls**

- Appropriate engineering controls** : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- Personal protective equipment**
- Eye/face protection** : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- Skin Protection Hand protection** : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

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- Body Protection** : Wash and dry hands.  
: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection** : Respiratory protection is required.

**9. Physical and Chemical Properties**

- Appearance** : White crystalline powder  
**Odor** : No data available  
**pH** : No data available  
**Melting point/freezing point** : 568 °C  
**Initial boiling point and boiling range** : 960 °C at 1.013 hPa  
**Flash Point** : No data available  
**Vapor pressure** : 13 hPa at 656 °C  
**Vapor density** : No data available  
**Relative density** : 4.050 g/cm<sup>3</sup>  
**Solubility in water** : 457 g/l at 20 °C  
**Solubility (other)** : No data available  
**Formula** : CdCl<sub>2</sub>.H<sub>2</sub>O  
**Molecular Weight** : 201.32 g/mol

**10. Stability and Reactivity**

- Reactivity** : No data available  
**Chemical stability** : Stable under recommended storage conditions.  
**Possibility of hazardous reactions** : No data available  
**Conditions to avoid** : No data available  
**Incompatible materials** : Oxidizing agents  
**Hazardous decomposition products** : No data available

**11. Toxicological Information****Information on toxicological effects**

- Acute toxicity** : LD50 Oral - Mouse - 310 mg/kg

Remarks: Behavioral:Tremor. Behavioral:Change in motor activity (specific assay). Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

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LC50 Inhalation - Rat - male and female - 4 h - 0,06 mg/l

<b>Skin corrosion/irritation</b>	:	No data available
<b>Serious eye damage/eye irritation</b>	:	No data available
<b>Respiratory or skin sensitization</b>	:	No data available
<b>Germ cell mutagenicity</b>	:	No data available
<b>Carcinogenicity</b>	:	IARC: 1 - Group 1: Carcinogenic to humans (Cadmium carbonate) 1 - Group 1: Carcinogenic to humans (Cadmium carbonate)
<b>Reproductive toxicity</b>	:	No data available
<b>Specific target organ toxicity - single exposure</b>	:	No data available
<b>Specific target organ toxicity - repeated exposure</b>	:	No data available
<b>Aspiration hazard</b>	:	No data available
<b>Potential health effects</b>	:	
<b>Inhalation</b>	:	No data available
<b>Ingestion</b>	:	No data available
<b>Skin</b>	:	No data available
<b>Eyes</b>	:	No data available
<b>Signs and Symptoms of Exposure</b>	:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**12. Ecological Information**

<b>Toxicity</b>	:	No data available
<b>Persistence and degradability</b>	:	No data available
<b>Bioaccumulative potential</b>	:	No data available
<b>Mobility in soil</b>	:	No data available
<b>Other adverse effects</b>	:	Very toxic to aquatic life with long lasting effects.

**13. Disposal consideration**

<b>Disposal instructions</b>	:	Discharge, treatment, or disposal may be subject to national, state, or local laws.
<b>Contaminated packaging</b>	:	Offer rinsed packaging material to local recycling facilities. Since emptied containers retain product residue, follow label warnings even after container is emptied.

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	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	2570	Cadmium chloride	6.1	III	Yes
<b>IMDG</b>	2570	Cadmium chloride	6.1	III	Yes
<b>IATA</b>	2570	Cadmium chloride	6.1	III	Yes

**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date :01/08/2014****Version : 0**

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