1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers
Product Number  GRM469
Product Name  Cadmium chloride monohydrate, Hi-AR ™
CAS No.  35658-65-2

1.2 Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant identified uses  Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet
Produced by  HiMedia Laboratories Private Limited
Address  23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086 India
Tel. No.  +91-22-2500 0970, +91-22-2500 1607
Fax No.  +91-22-25002468
Mail Id  info@himedialabs.com
Website  www.himedialabs.com

1.4 Emergency Tel. No.
Emergency Tel. No.  Please contact the regional HiMedia representation in your country

2 Hazards Identification

2.1 Classification of the substance or mixture
CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]
Acute toxicity, Oral, (Category 3), H301
Acute toxicity, Inhaled, (Category 2), H330
Germ cell mutagenicity, (Category 1A), H340
Carcinogenicity, (Category 1A), H350
Reproductive toxicity, (Category 1A), H360FD
Specific target organ toxicity, repeated exposure, (Category 1), H372
Hazardous to the aquatic environment, long term hazard, (Category 1), H410

2.2 Label elements
Labeling according to Regulation (EC) No.1272/2008

Pictogram
Signal word  Danger
Hazard Statement(s)
H301  Toxic if swallowed
H330  Fatal if inhaled
H340  May cause genetic defects
H350  May cause cancer
H360FD  May damage fertility. May damage the unborn child
H372  Causes damage to organs through prolonged or repeated exposure
H410  Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)
P201  Obtain special instructions before use.
P260  Do not breathe dust/fume/gas/mist/vapours/spray.
P273  Avoid release to the environment.
P284  Wear respiratory protection.
P301 + P310  IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P310  Immediately call a POISON CENTER or doctor/physician.

2.3  Other Hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3  Composition/Information On Ingredients

3.1  Substances
Molecular Formula :  CdCl₂.H₂O
Molecular Weight :  201.32
CAS No. :  35658-65-2

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium chloride monohydrate, Hi-AR™</td>
<td>As Per EC Regulation 1272/2008 Acute Tox.oral. 3; Acute Tox.inhal. 2; Muta. 1A; Carc. 1A; Repr. 1A; STOT RE 1; Aquatic Chronic 1 H301; H330; H340; H350; H360FD; H372; H410</td>
<td>&lt;= 100%</td>
</tr>
<tr>
<td>CAS No. :  35658-65-2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

4  First Aid Measures

4.1  Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Take off contaminated clothing and shoes immediately. Wash with plenty of soap and water. Take victim immediately to hospital. Consult a physician.

In case of eye contact
Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

If swallowed
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 Indication of immediate medical attention and special treatment needed
No data available

5 Fire Fighting Measures
5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media
No data available.

5.2 Special hazards arising from the substance or mixture
Hydrogen chloride gas. Under fire conditions, hazardous fumes will be present.

5.3 Precautions for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information
No data available.

6 Accidental Release Measures
6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see Section 13.

7 Handling and Storage
7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Recommended Storage Temperature: Below 30°C

7.3 Specific end uses
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 Exposure Controls/Personal Protection
8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls
Appropriate engineering controls
Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment
Hygiene measure
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.
Eye/face protection
Faceshield and safety goggles.
Skin protection
Handle with gloves.
Body protection
Complete suit protecting against chemicals.
Respiratory protection
Air-purifying respirators.
Environment exposure controls
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9 Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance: White to off-white crystals or powder
Odour: No data available
Odour Threshold: No data available
pH: No data available
Melting/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: No data available
Upper/lower flammability or explosive limits: No data available
Evaporation rate: No data available
Flammability (Solid, gas): No data available
Vapour pressure: No data available
Relative density: No data available
Water Solubility: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition Temperature: No data available
Decomposition Temperature | No data available
---|---
Viscosity | No data available
Explosive properties | No data available
Oxidizing properties | No data available
Vapour density | No data available
Thermal decomposition | No data available

9.2 **Other safety information**
No data available

10 **Stability and Reactivity**

10.1 **Reactivity**
No data available

10.2 **Chemical stability**
Stable under recommended storage conditions.

10.3 **Possibility of hazardous reactions**
No data available

10.4 **Conditions to avoid**
Incompatible material

10.5 **Incompatible materials**
Strong acids, Strong bases

10.6 **Hazardous decomposition products**
Other decomposition products - refer section 5.2.
In the event of fire - refer section 5.

11 **Toxicological Information**

11.1 **Information on toxicological effects**

*Acute toxicity*
No data available

*Skin corrosion/irritation*
No data available

*Serious eye damage/eye irritation*
No data available

*Respiratory or skin sensitisation*
No data available

*Germ cell mutagenicity*
No data available

*Carcinogenicity*
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

*Reproductive toxicity*
No data available

*Specific target organ toxicity- single exposure*
No data available
**Specific target organ toxicity - repeated exposure**
No data available

**Aspiration hazard**
No data available

**Additional Information**
RTECS : EV01900000

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12  
**Ecological Information**

12.1 **Toxicity**
No data available

12.2 **Persistence and degradability**
No data available

12.3 **Bioaccumulative potential**
No data available

12.4 **Mobility in soil**
No data available

12.5 **PBT and vPvB assessment**
PBT and vPvB assessment not available Chemical safety assessment is not required

12.6 **Other adverse effects**
Discharge into the environment must be avoided.

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13  
**Disposal Considerations**

13.1 **Waste treatments methods**

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

13.2 **Contaminated packaging**
Dispose of as unused product.

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14  
**Transport Information**

14.1 **UN-No**
ADNR : 2570  ADR : 2570  IATA_C : 2570  IATA_P : 2570  IMDG : 2570  RID : 2570

14.2 **UN proper shipping name**
ADNR : Cadmium compounds
ADR : Cadmium compounds
IATA_C : Cadmium compounds
IATA_P : Cadmium compounds
IMDG : Cadmium compounds
RID : Cadmium compounds

14.3 **Transport hazard class(es)**
14.4 Packaging group

14.5 Environmental hazards
ADNR : No    ADR : No    IMDG : Marine Pollutant: Yes    IATA_C : No    IATA_P : No    RID : No

14.6 Special precautions for use
No data available

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

15.1 Safety health and environment regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment
No data available

16 Other information
Text of H-Statements and EUH-Phrases mentioned in section 3
H301 Toxic if swallowed
H330 Fatal if inhaled
H340 May cause genetic defects
H350 May cause cancer
H360FD May damage fertility. May damage the unborn child
H372 Causes damage to organs through prolonged or repeated exposure
H410 Very toxic to aquatic life with long lasting effects
Acute Tox. oral. 3 Acute toxicity, oral, Category 3
Acute Tox. inhal. 2 Acute toxicity, inhaled, Category 2
Muta. 1A Germ cell mutagenicity, Category 1A
Carc. 1A Carcinogenicity, Category 1A
Repr. 1A Reproductive toxicity, Category 1A
STOT RE 1 Specific target organ toxicity, repeated exposure, Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, long term hazard, Category 1

Further Information
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The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.