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

1.1 Product Identifiers

Product Number  GRM3977
Product Name  Zinc acetate dihydrate, Hi-AR™/ACS
CAS No.  5970-45-6
EC No.  209-170-2

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.  +91-22-2500 2468
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 4), H302
Serious eye damage or eye irritation, (Category 2A), H319
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  Warning

Hazard Statement(s)
H302  Harmful if swallowed
H319  Causes serious eye irritation
H410  Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)
P273  Avoid release to the environment.
P305+P351+P338  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container to an approved waste disposal plant.

2.3 Other Hazards
none

3 Composition/Information On Ingredients

3.1 Substances
Molecular Formula: \(Zn(CH_3COO)_2 \cdot 2H_2O\)
Molecular Weight: 219.51
CAS No.: 5970-45-6
EC No.: 209-170-2

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc acetate dihydrate, Hi-AR™/ACS</td>
<td>As Per EC Regulation 1272/2008</td>
<td>&lt;= 100%</td>
</tr>
<tr>
<td>CAS No.: 5970-45-6</td>
<td>Acute Tox. oral 4; Eye Irrit. 2A; Aquatic Chronic 1 H302; H319; H410</td>
<td></td>
</tr>
<tr>
<td>EC No.: 209-170-2</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
Carbon oxides, Zinc/zinc oxides

### 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**: Colourless or white crystals or powder or solid
- **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
Oxidizing agents

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: ZG8750000

12 Ecological Information
12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
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.

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.

14 Transport Information
14.1 UN-No
ADNR : 3077 ADR : 3077 IATA_C : 3077 IATA_P : 3077 IMDG : 3077 RID : 3077

14.2 UN proper shipping name
ADNR : Environmentally hazardous substance, solid, n.o.s. (Zinc sulphate dihydrate)
ADR : Environmentally hazardous substance, solid, n.o.s. (Zinc sulphate dihydrate)
IATA_C : Environmentally hazardous substance, solid, n.o.s. (Zinc sulphate dihydrate)
IATA_P : Environmentally hazardous substance, solid, n.o.s. (Zinc sulphate dihydrate)
IMDG : Environmentally hazardous substance, solid, n.o.s. (Zinc sulphate dihydrate)
RID : Environmentally hazardous substance, solid, n.o.s. (Zinc sulphate dihydrate)

14.3 Transport hazard class(es)
ADNR : 9 ADR : 9 IATA_C : 9 IATA_P : 9 IMDG : 9 RID : 9

14.4 Packaging group

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

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
H302 Harmful if swallowed
H319 Causes serious eye irritation
H410 Very toxic to aquatic life with long lasting effects
Acute Tox.oral 4 Acute toxicity, oral, Category 4
Eye Irrit. 2A Serious eye damage or eye irritation, Category 2A
Aquatic Chronic 1 Hazardous to the aquatic environment, long term hazard, Category 1

Further Information
Copyright 2016 HiMedia Laboratories Pvt. Ltd.
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.