

**1. Identification of the substances/ mixture and of the company/ undertaking****1.1 Product Identifiers**

Product Code GRM745  
Product Name Cadmium sulphate octahydrate, Hi-AR™/ACS

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

Identified uses Laboratory chemicals, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet**

Produced by HiMedia Laboratories Pvt. Ltd.  
Address 23, Vadhani Indl.Estate, LBS Marg, Mumbai 400 086, India.  
Tel. No. +91-22-2500 0970, +91-22-2500 1607  
Fax No. +91-22-2500 2468

**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****Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Acute toxicity,oral (Category 3)  
Acute toxicity,inhalation (Category 1, 2)  
Germ cell mutagenicity (Category 1A, 1B)  
Carcinogenicity (Category 1A, 1B)  
Specific target organ toxicity, repeated exposure (Category 1)  
Hazardous to the aquatic environment, long-term hazard (Category 1)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

May cause cancer.  
May cause heritable genetic damage.  
May impair fertility.  
May cause harm to the unborn child.  
Toxic if swallowed.  
Very toxic by inhalation.  
Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
Very toxic to aquatic organisms,may cause long-term adverse. Effects in the aquatic environment.

**2.2 Label elements****Labelling according Regulation (EC) No 1272/2008 [CLP]**

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.

**According to European Directive 67/548/EEC as amended.**

Symbol(s)



R-Phrase(s)

- R45 May cause cancer.  
 R46 May cause heritable genetic damage.  
 R60 May impair fertility.  
 R61 May cause harm to the unborn child.  
 R25 Toxic if swallowed.  
 R26 Very toxic by inhalation.  
 R48/23/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
 R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Phrase(s)

- S53 Avoid exposure - obtain special instructions before use.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
 S60 This material and its container must be disposed of as hazardous waste.  
 S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

2.3 Other hazards - None

### 3. Composition/Information on Ingredients

#### 3.1 Substances

Molecular Formula  $3\text{CdSO}_4 \cdot 8\text{H}_2\text{O}$   
 Molecular Weight. 769.51

Component		Concentration
Cadmium sulphate octahydrate, Hi-AR™/ACS		
CAS-No.	7790-84-3	
EC-No.	233-331-6	
Index-No.	048-009-00-9	

### 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**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

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**

No data available

## **4.3 Indication of immediate medical attention and special treatment needed**

No data available

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## **5. Fire Fighting Measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Special hazards arising from the substance or mixture**

Sulphur oxides, Cadmium/cadmium oxides

### **5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### **5.4 Further information**

No data available

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## **6 Accidental Release Measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapors, 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.

### **6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### **6.4 Reference to other sections**

For disposal see Section 13.

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## **7 Handling and Storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

### **7.3 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended Storage Temperature : Store below 30°C

### **7.3 Specific end uses**

No data available

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## **8 Exposure Controls/Personal Protection**

### **8.1 Control parameters**

Components with workplace control parameters

### **8.2 Exposure controls**

#### **Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### **Personal protective equipment**

##### **Hygiene measure**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands face after working with the substance

##### **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin 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.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### **Body protection**

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 work place.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK(EN 14387) respirator cartridges as a backup to the engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### **Environment exposure controls**

Do not empty into drains

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## **9 Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance	White crystals or powder
Odour	No data available
Odour Threshold	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
Vapour pressure	No data available
Vapour density	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

### **9.2 Other safety information**

No data available

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## **10 Stability and Reactivity**

### **10.1 Reactivity**

No data available

### **10.2 Chemical stability**

No data available

### **10.3 Possibility of hazardous reactions**

No data available

### **10.4 Conditions to avoid**

No data available

### **10.5 Incompatible materials**

Strong oxidizing agents

### **10.6 Hazardous decomposition products**

Other decomposition products - No data available

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## **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

**Aspiration hazard**

No data available

**Potential Health Effects****Inhalation.**

Refer Section 2

**Skin**

Refer Section 2

**Eyes**

Refer Section 2

**Ingestion**

Refer Section 2

**Additional Information**

RTECS : EV2850000

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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**

No data available

**12.6 Other adverse effects**

No data available

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**13 Disposal Considerations****13.1 Waste treatments methods****Product**

Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose of this material.

**13.2 Contaminated packaging**

Dispose of as unused product.

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**14 Transport Information****14.1 UN-No.**

ADR/RID: 2570      IMDG: 2570      IATA: 2570

**14.2 UN proper shipping name**

ADR/RID : Cadmium sulphate octahydrate, Hi-AR™/ACS

IMDG : Cadmium sulphate octahydrate, Hi-AR™/ACS  
IATA : Cadmium sulphate octahydrate, Hi-AR™/ACS

**14.3 Transport hazard class(es)**

ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1

**14.4 Packaging group**

ADR/RID: 3 IMDG: 3 IATA: 3

**14.5 Environmental hazards**

ADR/RID: No IMDG: Marine Pollutant:Yes IATA: No

**14.6 Special precautions for use**

No data available

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**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

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**16 Other Information**

**Further information**

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