

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

Product Number GRM6756  
Product Name Calcium citrate tetrahydrate, Hi-LR<sup>TM</sup>  
CAS No. : 5785-44-4  
EC No. : 212-391-7

**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  
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Mail Id [info@himedialabs.com](mailto:info@himedialabs.com) Website : [www.himedialabs.com](http://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]**

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

**2.2 Label elements**

**Labeling according to Regulation (EC) No.1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**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**

Synonym Tricalcium dicitrate tetrahydrate  
Molecular Formula :  $C_{12}H_{10}Ca_3O_{14}.4H_2O$   
Molecular Weight : 570.49  
CAS No. : 5785-44-4  
EC No. : 212-391-7  
No components need to be disclosed according to the applicable regulations.

## **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 off with soap and plenty of 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

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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

#### ***Unsuitable extinguishing media***

No data available.

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

Calcium oxide

### **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 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.

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### 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.

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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**

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.

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### 9 Physical and chemical properties

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

|                 |                       |
|-----------------|-----------------------|
| Appearance      | White to beige 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 |
| 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

No data available

### 10.5 Incompatible materials

Strong 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 : Not available

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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 : -      ADR : -      IATA\_C : -      IATA\_P : -      IMDG :-      RID : -

**14.2 UN proper shipping name**

ADNR : Not dangerous goods  
ADR : Not dangerous goods  
IATA\_C : Not dangerous goods  
IATA\_P : Not dangerous goods  
IMDG : Not dangerous goods  
RID : Not dangerous goods

**14.3 Transport hazard class(es)**

ADNR : -      ADR : -      IATA\_C : -      IATA\_P : -      IMDG : -      RID : -

**14.4 Packaging group**

ADNR :-      ADR :-      IATA\_C :-      IATA\_P :-      IMDG :-      RID :-

**14.5 Environmental hazards**

ADNR : No      ADR : No      IMDG : Marine Pollutant : No      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****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.