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

1.1 Product Identifiers
Product Number GRM017
Product Name Lactose monohydrate, Hi-AR™/ACS
CAS No. 64044-51-5
EC No. 200-559-2

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]
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
none

3 Composition/Information On Ingredients

3.1 Substances
Synonym Milk sugar
Molecular Formula : C_{12}H_{22}O_{11}.H_{2}O
Molecular Weight : 360.31
CAS No. : 64044-51-5
EC No. : 200-559-2
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.

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

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 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

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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