	SAFETY DATA SHEET (SDS)	
	MAGNESIUM SULPHATE HEPTA HYDRATE	
	Document #: SCIL-SDS-10	Issue Date: 01-Jan-23
	Revision: 0	Next Rev: 31-Dec-27

1. IDENTIFICATION

- 1.1 Product identifier:** Magnesium Sulfate Heptahydrate
- Synonym(s):** Magnesium sulfate, Epsom Salt
- Reach No.** 01-2119486789-11-XXXX
- CAS No.** 10034-99-8
- 1.2 Recommended use:** Laboratory chemicals, Manufacture of substances
- Restrictions on use:** Not determined.
- 1.3 Details of the supplier of the Safety data sheet Manufacturer**
- Company Name** Sitara Chemical Industries Ltd.
- Address:** 32-K.M, Sheikhpura Road, Faisalabad
- Telephone Number:** (+92) 041-4689141-5
- Emergency Number** (+92) 041-4689141-5 (Ext.1161)
- Website** <http://www.sitara.com.pk>

2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or Mixture.**
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
- 2.2 Label Elements**
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 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

Formula	:	MgSO ₄ • 7H ₂ O
Molecular weight	:	246.47 g/mol
CAS- No.	:	10034-99-8
EC-No.	:	231-298-2

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES


4.1 Description of first-aid measures

If inhaled: After inhalation move to fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact:

Rinse out with plenty of water. Remove contact lenses. Immediately call in ophthalmologist

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If swallowed:

After swallowing: immediately make victim drink water (two glasses at most). 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 labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and environment.

Unsuitable extinguishing media: For this substance no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Sulfur oxides gas.

Magnesium oxides.

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid substance contact. Do not breathe dust, aerosols. Ensure adequate ventilation.

Wear Personal protective equipment (PPE).

6.2 Environmental precautions. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Observe possible material restrictions. Dispose of properly. Clean up affected area.

6.4 Reference to other sections:

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling


For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Tightly closed, Moisture sensitive.

7.3 Specific end use(s)

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

Ingredients with workplace control parameters.

8.2 Exposure controls

Personal protective equipment

Eye/face protection: Use equipment for eye protection.

Skin protection: Chemical resistant gloves.

Body Protection: Protective clothing.

Respiratory protection: Required when dusts are generated.

Other: Wear suitable protective clothing.

Control of environmental exposure: Do not let product enter drains.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state / Form: Solid/ Fine crystals

Color: white

Odor: No data available

pH : 5.0 – 8.5 at 50 g/l at 20 °C

Melting point/freezing point: Melting point 1124.0 °C

Initial boiling point and boiling range: No data available

Flash Point: No data available

Evaporation rate: No data available.

Flammability (solid, gas): The product is not flammable.

Upper/lower limit on flammability or explosive limits No data available.

Vapor pressure: 0.133 hPa at 20 °C

Vapor density: No data available

Relative density: No data available

Solubility in water: 710 g/l at 20 °C

Partition coefficient (n-octanol/water): Not applicable for inorganic substances

Auto-ignition temperature: Not applicable.

Decomposition temperature: No data available.

Viscosity: Viscosity, kinematic / dynamic No data available

Explosive properties No data available

Oxidizing properties none

9.2 Other safety information: No data available

10. Chemical Stability & Reactivity Information

10.1 Reactivity: No data available


10.2 Chemical Stability: The product is chemically stable under standard ambient conditions.

10.3 Possibility of hazardous reactions: No information available.

10.4 Conditions to avoid: No data available

10.5 Incompatible Materials: No data available

10.6 Hazardous Decomposition Products: In the event of fire: see section 5

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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Symptoms: If ingested in large quantities, Stomach/intestinal disorders

Skin corrosion/irritation: No skin irritation

Serious eye damage/eye irritation: Eye irritation

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

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

11.2 Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

Static test LC50 –Pimephales promelas (fathead minnw) – - 680 mg/l- 96 h

Toxicity to daphnia and other aquatic invertebrates

static test LC50 - Daphnia magna (Water flea) - 720 mg/l - 48 h (US-EPA)

12.2 Persistence and degradability Methods for determining the biological degradability are not applicable to inorganic substances


12.3 Bio accumulative potential: No data available

12.4 Mobility in soil: No data available

12.5 Results of PBT and vPvB assessment

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

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

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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class (es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA: no

14.6 Special precautions for user: Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This material safety data sheet complies with the Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment was not carried out for this substance.

16. LABELING INFORMATION

Further information

Disclaimer:

All information given in this data sheet by the company's technical staff is compiled based on data available at this time. The company accepts no responsibility whatsoever for its accuracy or for any results which may be obtained by customers. Any customer who relies upon any advice or information given in this data sheet by the company or by its technical staff does so entirely at its own risk and the company will not be liable for any loss or damage thereby suffered notwithstanding any want of care on the part of the company or its staff in compiling or giving the advice or information.