MATERIAL SAFETY DATA SHEET

MAGNESIUM SULPHATE HEPTAHYDRATE

SECTION 1: CHEMICAL PRODUCT AND COMPANY DETAILS

Product Name	**Magnesium Sulphate Heptahydrate**
Synonym	Sulphate
Chemical Formula	MgSO4.7H2O
Company Name	Cosmo Chemistry India Pvt. Ltd.
Address	Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat, India - 395006
Telephone	+91 9797977958
Email	info@cosmochemistryindia.com

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Name	**CAS#**	**% by Weight**
Magnesium Sulphate Heptahydrate	10034-99-8	100

Toxicological Data on Ingredients: Not applicable.

SECTION 3: HAZARDS IDENTIFICATION

Potential Acute Health Effects: Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), eye contact (irritant), and inhalation.

Potential Chronic Health Effect: Carcinogenic Effect: Not applicable. Mutagenic Effect: Not applicable. Teratogenic Effect: Not applicable. Developmental Toxicity: Not applicable. Repeated or prolonged exposure is not known to aggravate any medical condition.

SECTION 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.

Skin Contact: After contact with skin, wash immediately with plenty of water; gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact: Not applicable.

Inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

Serious Inhalation: Not applicable.

Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not applicable.

SECTION 5: FIRE AND EXPLOSION DATA

Flammability of the Product: Not applicable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not applicable.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances: Not applicable for mechanical impact or static discharge.

Fire Fighting Media and Instruction: Not applicable.

Special Remarks on Fire Hazards: Not applicable.

Special Remarks on Explosion Hazards: Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

SECTION 7: HANDLING AND STORAGE

Precautions: No specific safety phrase has been found applicable for this product.

Storage: No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach material, and that shelves are not overloaded.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits.

Personal Protection: Splash goggles, full suit, dust respirator, boots, gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits: Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Value
Physical State and Appearance	White granular
Purity Content (%) Min	99.5
MgSO4 (%) Min	48.59
MgO (%) Min	16.24
Mg (%) Min	9.80
pH (5% w/v Sol)	5-7
Iron (Fe) (%) Max	0.0015
Chloride (Cl) (%) Max	0.014
Heavy Metal (Pb) (%) Max	0.0006
Arsenic (As) (%) Max	0.0002
Specific Gravity at 20°C	0.93 gm/cc
Moisture at 45°C	1.98%
Solubility	Fully water soluble

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is stable.

Corrosivity: Non-corrosive in presence of glass.

Polymerization: No.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Ingestion.

Toxicity to Animal: LD50 not available, LC50 not available.

Other Toxic Effect on Human: Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant) or inhalation.

Special Remarks on Chronic Effects on Humans: Passes through the placental barrier in humans.

Special Remarks on Other Toxic Effect on Humans: Not available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

SECTION 13: DISPOSAL CONSIDERATION

Product & Contaminated Packaging: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

SECTION 15: OTHER REGULATORY INFORMATION

Classification and Labeling Danger Symbol: Not applicable.

Danger Label: Not applicable.

Safety Phrases: Use of gloves, lab coat, safety glasses and dust respirators.

SECTION 16: OTHER INFORMATION

Reference: Not available.

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