MATERIAL SAFETY DATA SHEET

Magnesium Chloride Hexahydrate

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Magnesium Chloride Hexahydrate Technical/IP/BP/USP

Synonyms: Dus-Top; Mangogene.

Company Identification: Cosmo Chemistry India Pvt. Ltd.

Office No. 713, 7th Floor, Millennium Business Hub, Sarthana Jakatnaka, Varachha Main Road, Surat, Gujarat, India – 395006

For Information, Call: +91 7984584838

Emergency Number: +91 7984584838

Email: info@cosmochemistryindia.com

For International Assistance, Call: +91 8306060703

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Percent	EINECS/ELINCS
7791-18-6	Magnesium Chloride Hexahydrate Flakes or Crystals	99.21%	Unlisted

Hazard Symbols: None listed.

Risk Phrases: None listed.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance: white to gray white. Causes eye and skin irritation. Causes digestive and respiratory tract irritation. May cause kidney damage. Inhalation of fumes may cause metal fume fever. Warning!

Potential Health Effects

Eye: May cause mild eye irritation.

Skin: May cause skin irritation.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause kidney damage.

Inhalation: May cause respiratory tract irritation. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count.

Chronic: May cause kidney damage.

Target Organs: Kidneys

SECTION 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation.

Notes to Physician: Treat symptomatically and supportively.

Antidote: The use of Calcium gluconate to precipitate the oxalate should be determined by only qualified medical personnel.

SECTION 5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water with caution and in flooding amounts.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

SECTION 7 - HANDLING AND STORAGE

Handling: Wash hands before eating. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Magnesium Chloride Hexahydrate	None listed	None listed	None listed

OSHA Vacated PELs: Magnesium Chloride Hexahydrate – No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear chemical goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Physical State	Solid
Appearance	White to gray white
Odor	None reported
pH	7.0 (Solution)
Vapor Pressure	Not available
Vapor Density	Not available
Evaporation Rate	Not available
Viscosity	Not available
Boiling Point	1412 °C
Freezing/Melting Point	118 °C
Autoignition Temperature	Not available
Flash Point	Not available
Decomposition Temperature	100 °C
NFPA Rating (estimated)	Health: 2; Flammability: 0; Reactivity: 0
Explosion Limits, Lower	Not available
Explosion Limits, Upper	Not available
Solubility	Soluble in water and alcohol
Specific Gravity/Density	1.569
Molecular Formula	MgCl2.6H2O
Molecular Weight	203.2914

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Heating to decomposition.

Incompatibilities with Other Materials: Explosive when combined with 2-furan percarboxylic acid. Magnesium chloride dissolves in aqueous solutions giving off considerable amounts of heat; incompatible with strong oxidizers.

Hazardous Decomposition Products: Hydrogen chloride, chlorine.

Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

CAS# 7791-18-6 RTECS#: OM2975000

LD50/LC50 (CAS# 7791-18-6):

Oral, mouse: LD50 = 7600 mg/kg

Oral, rat: LD50 = 8100 mg/kg

Carcinogenicity: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information found.

Teratogenicity: No information found.

Reproductive Effects: No information found.

Neurotoxicity: No information found.

Mutagenicity: No information found.

Other Studies: See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Applicable local and national waste regulations must be consulted to ensure complete and accurate classification prior to disposal.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION 14 - TRANSPORT INFORMATION

	US DOT	IATA	RID/ADR	IMO	Canada TDG
Shipping Name	NA				NA
Hazard Class					
UN Number					
Packing Group					

SECTION 15 - REGULATORY INFORMATION

US Federal

TSCA: CAS# 7791-18-6 is not on the TSCA Inventory. It is a hydrate and exempt from TSCA Inventory requirements (40CFR720.3(u)(2)).

Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ): None of the chemicals in this material have an RQ.

Section 302 (TPQ): None of the chemicals in this product have a TPQ.

Section 313: No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants. This material does not contain any Class 1 or Class 2 Ozone depletors.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances, Priority Pollutants, or Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 07/12/2020

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