



The Worldwide Resource...

THE BTTCO OVERSEAS

A GOVT. OF INDIA RECOGNIZED *STAR EXPORT HOUSE*
A D&B CERTIFIED COMPANY - DUNS NUMBER: 87-229-6440

Material Safety Data Sheet Magnesium Chloride Hexahydrate

Section 1 - Chemical Product and Company Identification

Product Name : Magnesium Chloride
Synonyms : Magnesium dichloride hexahydrate

Company Name & Address : THE BTTCO OVERSEAS
6, ASHIRVAD COMPLEX, NR. SARDAR PATEL SEVA SAMAJ HALL,
NAVRANGPURA, AHMEDABAD – 380009 GUJARAT, INDIA.

Company Phone Number : +91-79-26467891
Emergency Phone Number : +91-9426596891

Section 2 - Composition, Information on Ingredients

CAS# : 7791-18-6
Chemical Name : Magnesium chloride hexahydrate
Percent : 100%

Section 3 - Hazards Identification

Emergency Overview

Appearance : white to gray-white solid
Caution! : May cause eye irritation. Hygroscopic (absorbs moisture from air).
Target Organs : No data found

Potential Health Effects

Eye : May cause mild eye irritation.
Skin : May cause skin irritation.
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.
Ingestion : Causes gastrointestinal irritation with nausea, vomiting and diarrhea.
Chronic : May cause kidney damage



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Section 4 - First Aid Measures

- Eyes** : Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.
- Skin** : Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid.
- Inhalation** : Give artificial respiration if necessary. Move victim to fresh air. Keep victim warm and at rest. Get medical aid at once. Do not use mouth-to-mouth resuscitation.
- Ingestion** : Do not induce vomiting. If victim is conscious, give 2-4 glasses of water or milk. Get medical aid at once.
- Notes to Physician** : Treat symptomatically and supportively.

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 is noncombustible.
- Extinguishing Media** : For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.
- Autoignition Temperature** : No information found.
- Flash Point** : No information found.
- NFPA Rating** : Health-1; flammability-0; reactivity-0
- Explosion Limits** : Lower: Not Available Upper: Not Available

Section 6 - Accidental Release Measures

- General Information** : Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks** : Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately. Avoid creating airborne particles. Provide ventilation.



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Section 7 - Handling and Storage

Handling	: Wash thoroughly after handling. Use with adequate ventilation. Do not get on skin or in eyes. Do not ingest or inhale. Avoid breathing dust, vapor, mist, or gas.
Storage	: Store capped at room temperature. Protect from heat and incompatibles.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls	: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.
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Exposure Limits:

Chemical Name	: Magnesium chloride hexahydrate
ACGIH	: None Listed
NIOSH	: None Listed
OSHA	: None Listed
OSHA Vacated PELs	: Magnesium chloride hexahydrate: No OSHA Vacated PELs are listed.

Personal Protective Equipment

Eyes	: Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear appropriate protective eyeglasses or chemical safety goggles as described in 29 CFR 1910.133.
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 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.



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Section 9 - Physical and Chemical Properties

Physical State	: Solid
Color	: White to gray white
Odor	: Odorless
pH	: 7.0 (aqueous solution)
Vapor Pressure	: Not available
Vapor Density	: Not available
Evaporation Rate	: Not available
Viscosity	: Not available
Boiling Point	: Not available
Freezing/Melting Point	: 117°C
Decomposition Temperature	: Not available
Solubility in water	: Freely soluble
Specific Gravity/Density	: 1.56
Molecular Formula	: MgCl ₂ .6H ₂ O
Molecular Weight	: 203.31

Section 10 - Stability and Reactivity

Chemical Stability	: Stable under normal storage and handling conditions. Deliquescent (tending to absorb atmospheric water vapor and become liquid.)
Conditions to Avoid	: Dust generation, moisture
Incompatibilities with Other Materials	: Attacks metals in the presence of moisture.
Hazardous Decomposition Products	: Chlorine, hydrogen chloride.
Hazardous Polymerization	: Has not been reported

Section 11 - Toxicological Information

RTECS	: CAS# 7791-18-6: OM2975000
LD50/LC50	: CAS# 7791-18-6: Oral, mouse: LD50 = 7600 mg/Kg; Oral, rat: LD50 = 8100 mg/Kg.
Carcinogenicity	: CAS# 7791-18-6: Not listed by ACGIH, IARC, NTP, or CA Proposition 65.
Epidemiology	: No information available
Teratogenicity	: No information available
Reproductive	: No information available
Mutagenicity	: No information available
Neurotoxicity	: No information available

6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall, Navrangpura, Ahmedabad-380 009
Phone: +91 79 2640 6891, 2644 6891, 2646 6891 * +91 942 659 6891
Email: sales@bttcogroup.com Website: www.bttcogroup.com



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Section 12 - Ecological Information

No information available.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name : Not regulated
Hazard Class : Not Applicable
UN Number : Not Applicable
Packing Group : Not Applicable

Section 15 - Regulatory Information

US Federal

TSCA : CAS# 7791-18-6 is not listed on the TSCA inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40 CFR 720.3(u)(2)).
CAS# 7786-30-3 (anhydrous) is listed on the TSCA inventory. Does not have a Significant New Use Rule.

SARA Reportable Quantities (RQ) : CAS# 7791-18-6 does not have a RQ.

CERCLA/SARA Section 313 : Not reportable under Section 313.

OSHA - Highly Hazardous : Not considered highly hazardous by OSHA.

US State

State Right to Know : CAS# 7791-18-6 is not listed on the following state right to know lists: California, Florida, New Jersey, Pennsylvania, Minnesota, and Massachusetts.

California Regulations : Not listed.

European/International Regulations Canadian

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DSL/NDL : Anhydrous magnesium chloride (CAS# 7786-30-3) is listed on Canada's DSL List.

Canada Ingredient Disclosure List : CAS# 7791-18-6 is not listed on the Ingredient Disclosure List.

Section 16 - Other Information

Disclaimer:

The BTTCO Overseas provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate precautionary handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. The BTTCO Overseas, MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, The BTTCO Overseas, WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

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