



Safety Data Sheet

1. Product Identifier and Company Identification

Product name : Magnesium Chloride Gauging Solution
HBCC SDS number : CD02500H
Synonym : Magnesium Chloride, Magnesium Chloride Brine
Product use and Restrictions : Refer to label or call
Manufacturer : Corporate Headquarters
Contact Address : Corporate Safety & Compliance
Hill Brothers Chemical Company
1675 North Main Street
Orange, California 92867
714-998-8800
800-821-7234
Hill Brothers Chemical Company
7121 West Bell Road, Suite 250
Glendale, Arizona 85308
623-535-9955 - Office
623-535-9944 - Fax

Emergency telephone Number (Chemtrec) : 800-424-9300
Website : <http://hillbrothers.com>

2. Hazard Identification

Classification : None
Signal Word : None
Pictogram(s) : None
Hazard Statements : None

Precautionary Statements

Response : None
Prevention : None
Storage : None
Disposal : None

3. Composition/Information on Ingredients

CAS Number	Ingredient Name	Weight %
7786-30-3	Magnesium Chloride	<21%
7732-18-5	Water	>79%

4. First Aid Measures

Summary of First Aid Measures

Ingestion : Should this type of exposure occur, and large quantities of magnesium chloride are accidentally ingested, give the person 2 to 3 glasses of water to drink and induce vomiting. Repeat. If only small quantities have been ingested, dilute material with 1 to 2 glasses of water and do not induce vomiting. GET MEDICAL ATTENTION.

- Inhalation** : Remove to fresh air. GET MEDICAL ATTENTION.
- Skin** : Wash off in flowing water or shower for 15-20 minutes.
- Eyes** : Irrigate with large amounts of water continuously for 15 minutes. GET MEDICAL ATTENTION.
- Medical Conditions** : Possible skin irritation to sensitive individuals.
- Effects of Overexposure** : N/A
- Summary of Acute Health Hazards** : N/A
- Ingestion** : Possible nausea and vomiting. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach.
- Inhalation** : May be irritating, but not likely to cause injury.
- Skin** : May cause minor irritation.
- Eyes** : Slight irritation and may cause minor transient corneal injury.
- Note to Physicians** : The severity of ingestion exposure to magnesium chloride can be estimated by measuring the amount of magnesium in the blood, assuming that the affected worker was not exposed to other magnesium products.
- Summary of Chronic Health** : N/A

5. Fire Fighting Measures

- Extinguishing** : Use extinguishing agents that will put out the surrounding fire.
- Special Exposure Hazards** : Magnesium chloride is a stable, simple, inorganic salt that will not burn.
- Special Protective Fire Fighting Procedures** : May use a self-contained breathing apparatus if temperature exceeds 572° F.
- NFPA Rating** : Health - 1
Flammability - 0
Instability - 0



0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Uniform Fire Code Rating : N/A

6. Accidental Release Measures

Personal Precautions : No special precautions.

Emergency Procedures : N/A

Methods of Containment And Clean-Up : Sweep up and return to container. Contain spills to prevent contamination of water supply or sanitary sewer system. Dispose of large amounts in accordance with applicable local, county, state and federal regulations.

7. Handling and Storage

Safe Handling : Practice reasonable care and caution. Incompatible with sulfuric and nitric acids, caustics, ammonia, and cyanides.

Storage : Material is deliquescent, so may cake with long term storage. This is only a detriment to handling of the material - No Hazard Entailed.

Work/Hygienic Practices : Wash hands thoroughly after handling, and before eating, drinking, or smoking. DO NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Ventilation : Provide adequate ventilation.

8. Exposure Controls/Personal Protection

Occupational Exposure Limits :

Chemical Name: Magnesium Chloride Gauging Solution				
Exposure Limits (TWAs) in Air				
CAS Number	Chemical	ACGIH TLV	OSHA PEL	STEL
7786-30-3	Magnesium Chloride	N/A	N/A	N/A

Protective Equipment : N/A

Eye Protection : Safety glasses

Respiratory : An approved dust respirator is recommended.

9. Physical and Chemical Properties

Appearance: clear liquid with a slight amber color at times.	Odor: N/A
Odor Threshold: N/A	pH: 5 – 6.5
Melting Point/Freezing Point: -13° F	Initial Boiling Point/Range: 245° F (118° C)
Flash Point: N/A	Evaporation Rate (BuAc=1): N/A
Flammability: N/A	Lower/Upper Explosive Limit: N/A
Vapor Pressure (mmHg): 0.5 psia at 100° F	Vapor Density (Air=1): N/A
VOC: N/A	Solubility in Water: Soluble
Decomposition Temperature: N/A	Density at 20o C (60o F): 9.83 lbs/gal
% Volatiles: <0.5%	Specific Gravity (Water=1): 1.18
Molecular Weight: N/A	---

10. Stability and Reactivity

Reactivity	: N/A
Chemical Stability	: Stable
Possibility of Hazardous Reactions or Polymerizations	: N/A
Conditions to Avoid	: Solutions can be aggressively corrosive.
Incompatible Materials	: Metals will experience slight corrosion over time. Incompatible with sulfuric and nitric acids, caustics, ammonia, and cyanides. A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported.
Hazardous Decomposition Products	: Slow heating may release free chlorine gas above 572° F. Avoid contact with strong acids, as chlorine gas may evolve. Under normal applications, decomposition should not occur.

11. Toxicological Information

Acute and Chronic Effects : N/A

Routes of Exposure

Inhalation	: Yes
Ingestion	: Yes
Skin	: Yes
Eyes	: Yes

Symptoms related to Physical, Chemical & Toxicological Characteristics : N/A

Numerical Measures of Toxicity : N/A

Chronic Toxicity : N/A

Carcinogenicity : N/A

Product Name: Magnesium Chloride Gauging Solution					
ACGIH	IARC	EPA	NIOSH	NTP	OSHA
No	No	No	No	No	No

TARGET ORGANS : N/A

12. Ecological Information

Ecotoxicity : N/A

Persistence and Degradability : N/A

Bioaccumulative Potential : N/A

Product/Ingredient	Log _{pow}	BCF	Potential
-	-	-	-

Mobility in Soil : N/A

13. Disposal Considerations

Disposal of Container : Wash residue away with large excess of water. Dispose of large amounts in accordance with applicable local, county, state and federal regulations.

14. Transport Information

This product is not regulated as a hazardous material, substance or dangerous good.

15. Regulatory Information

SARA 302 Extremely Hazardous Substances (EHS) : No chemical in this product is listed as an Extremely Hazardous Substance (EHS) under Section 302 of EPCRA.

SARA 304 Extremely Hazardous Substances (EHS) Release Notification : No chemical in this product is listed as an Extremely Hazardous Substance (EHS) which, if released to the environment in quantities at or above the substance's Reportable Quantity (RQ), would require reporting to the SERC and LEPC under Section 304 of EPCRA.

SARA 311/312 Hazards

SARA 311/312 Hazards				
Acute	Chronic	Flammability	Pressure	Reactivity
No	No	No	No	No

SARA 313 Reportable Chemicals

: No chemical in this product is subject to annual emissions, transfers, or waste management reporting under the Community-Right-to-Know provisions of EPCRA Section 313, also known as the Toxic Release Inventory (TRI) Report or Form R.

CERCLA Hazardous Substances

: No chemical in this product is listed as a CERCLA hazardous substance subject to the National Response Center (NRC) release reporting requirements.

Clean Air Act (CAA) Section 112(r) Air Pollutants

: No chemical in this product is listed as an air pollutant under the U.S. Clean Air Act, Section 112(r) (40 CFR 61).

California Prop 65 Chemicals

: This product does not contain any chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

Hazard Label Warning

: This product does not require hazard label warnings.

TSCA (Toxic Substances Control Act)

: All chemical substances in this product are listed on the U.S. TSCA Inventory List.

ACRONYMS:

- CAS # – Chemical Abstract Services Registry Number
- CFR – Code of Federal Regulations
- CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act
- EPCRA – Emergency Planning and Community Right-to-Know Act
- LEPC – Local Emergency Planning Committee
- SERC – State Emergency Response Commission

16. Other Information

- Revision date** : 05/13/2015
- Supersedes** : 11/10/2008
- First Issue** : 04/10/1987

Chemical Family/Type : Magnesium Chloride Hexahydrate, Magnesium Chloride Brine

Section(s) changed since last revision : MSDS to First Issue SDS Conversion

IMPORTANT! Read this SDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This SDS has been prepared in accordance with the Globally Harmonized System of Chemical and Labeling of Chemicals (GHS) Fifth Edition and the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The SDS information is based on sources believed to be reliable. Available data, safety standards, and government regulations are subject to change and the

conditions of handling and use, or misuse are beyond our control; **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks and exercise appropriate precautions for protection of employees and others prior to use.