Material Safety Data Sheet

Revision Issued: 11/10/2008 Supercedes: 5/12/1999 First Issued: 4/10/1987

Section I - Chemical Product And Company Identification

Product Name: Gauging Solution

CAS Number: 7786-30-3 HBCC MSDS No. CD02500H

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Section II - Composition / Information On Ingredients

			Exposure Limits (TWAs) in Air		
Chemical Name	CAS Number	%	ACGIH TLV	OSHA PEL	STEL
Magnesium Chloride	7786-30-3	24	N/A	N/A	N/A

Section III - Hazard Identification

Summary of Acute Health Hazards
Ingestion: Possible nausea and vomiting. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach.
Inhalation: Dust may be irritating, but not likely to cause injury.
Skin: May cause minor irritation.
Eyes: Slight irritation and may cause minor transient corneal injury.
Summary of Chronic Health Hazards: N/A
Summary of Toxic Effects: N/A

Section IV - First Aid Measures

Ingestion: Unlikely. 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 Generally Aggravated by Exposure: Possible skin irritation to sensitive individuals.

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.

Section V - Fire Fighting Measures

Flash Point: Non-Flammable

Autoignition Temperature: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: N/A

Extinguishing Media: Magnesium chloride is a stable, simple, inorganic salt that will not burn. Use extinguishing agents that will put out the surrounding fire.

Special Firefighting Procedures: May use a self-contained breathing apparatus if temperature exceeds 572ºF.

Section VI - Accidental Release Measures

No special precautions. 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.

Section VII - Handling and Storage

Practice reasonable care and caution. Avoid breathing dust if generated. Material is deliquescent, so may cake with long term storage. This is only a detriment to handling of the material - No Hazard Entailed.

Other Precautions: Incompatible with sulfuric and nitric acids, caustics, ammonia, and cyanides.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: An approved dust respirator is recommended.
Ventilation: Provide adequate ventilation.
Protective Clothing: N/A
Eye Protection: Safety glasses
Other Protective Clothing or Equipment: N/A
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.

Section IX - Physical and Chemical Properties

Physical State: Liquid

pH: 6 - 8

Melting Point/Range: N/A

Boiling Point/Range: 290ºF; 143ºC

Appearance/Color/Odor: Colorless to amber liquid. Material is odorless.

Solubility in Water:38% at 120ºF; 49ºC, 45% at

Vapor Pressure: 0.5 psia at

290ºF; 143ºC

100ºF

Specific Gravity(Water=1): Approximately 2.3

Molecular Weight: N/A

Vapor Density(Air=1): N/A

% Volatiles: N/A

Odor Threshold: N/A

Freezing Point: N/A

How to detect this compound : N/A

Section X - Stability and Reactivity

Stability: Stable **Hazardous Polymerization:** Will Not Occur

Conditions to Avoid: Solutions can be aggressively corrosive.

Materials to Avoid: 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 572ºF. Avoid contact with strong acids, as chlorine gas may evolve. Under normal applications, decomposition should not occur.

Section XI - Toxicological Information

N/A

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

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

Section XIV - Transport Information

DOT Proper Shipping Name: N/A
DOT Hazard Class/ I.D. No.: N/A

Section XV - Regulatory Information

NFPA Rating: Health - 1; Flammability - 0; Instability - 0
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Carcinogenicity Lists: NTP: No **IARC Monograph:** No **OSHA Regulated:** No

Section XVI - Other Information

Synonyms/Common Names: N/A
Chemical Family/Type: Magnesium Chloride Hexahydrate, Magnesium Chloride Brine
Sections revised since last revision: I-V, VIII, X, XVI

IMPORTANT! Read this MSDS 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 MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since 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. Also, 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 prior to use, and then to exercise appropriate precautions for protection of employees and others.