



Safety Data Sheet CM LIQUID MAG 4%

SDS Number: 302

Revision: MAY 10, 2015

Section 1: IDENTIFICATION**1.1 Product Name:** CM LIQUID MAG 4%**1.2 Other Identification:**

Chemical Family: Liquid Magnesium Lignosulfonate Fertilizer solution

1.3 Recommended Use of Chemical: Agricultural Industry – Fertilizer use**1.4 Manufacturer:** CUSTOM AG FORMULATORS, INC
3430 S. Willow Ave
Fresno, CA 93725
Information: (559) 435-1052**1.5 Emergency Contact:** CUSTOM AG FORMULATORS, Inc. (800) 355-4457**Section 2: HAZARD(S) IDENTIFICATION****2.1 Hazard Classification:**

Physical None

2.2 Signal Word: WARNING**2.3 Hazard Statement(s):** May be harmful if swallowed. May be harmful in contact with skin. May cause eye irritation. May cause mild skin irritation.**2.4 Symbol(s):****2.6 Hazard(s):**H315- Causes skin irritation
H320- Causes eye irritation
H335- May cause respiratory irritation**2.7 Unknown Toxicity Ingredient:** None

Section 3: COMPOSITION/INFORMATION on INGREDIENTS
3.1 Chemical Ingredients: (See Section 8 for exposure guidelines)

Chemical	Synonym Common Name	CAS No.	EINECS No.	% by Wt.
Proprietary	N/A			Proprietary

Section 4: FIRST AID MEASURES
4.1 Symptoms/Effects:

Acute: Eye contact may cause eye irritation. Repeated or prolonged skin contact may cause skin irritation. Ingestion may irritate the gastrointestinal tract.

Chronic: No known chronic effects.

4.2 Eyes: Immediately flush with large quantities of water for 15 minutes. Hold eyelids apart during irrigation to ensure thorough flushing of the entire area of the eye and lids. Obtain medical attention if irritation occurs.

4.3 Skin: Immediately flush with large quantities of water. Remove contaminated clothing under a safety shower. Continue rinsing. Obtain medical attention if irritation occurs.

4.4 Ingestion: If victim is conscious, give 2 to 4 glasses of water and induce vomiting by touching finger to back of throat. Obtain medical attention.

4.5 Inhalation: Remove victim from contaminated atmosphere. If breathing is labored, administer oxygen. If breathing has ceased, clear airway and start CPR. Obtain medical attention.

Section 5: FIRE FIGHTING MEASURES
5.1 Flammable Properties: (See Section 9 for additional flammable properties)

NFPA: **Health - 1** **Flammability - 0** **Reactivity - 0**

5.2 Extinguishing Media:

5.2.1 Suitable Extinguishing Media: Not flammable, use media suitable for combustibles involved in fire.

5.2.2 Unsuitable Extinguishing Media: None known

5.3 Protection of Firefighters:**5.3.1 Specific Hazards Arising from the Chemical:**

Physical Hazards: Heating (flames) of closed or sealed containers may cause violent rupture of container due to thermal expansion of compressed gases.

5.3.2 Protective Equipment and Precautions for Firefighters:

Firefighters should wear self-contained breathing apparatus (SCBA) and full fire-fighting turnout gear. Keep containers/storage vessels in fire area cooled with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Use personal protective equipment specified in Section 8. Isolate the hazard area and deny entry to unnecessary, untrained and unprotected personnel.

6.2 Environmental Precautions: Keep out of “waters of the United States” because of potential aquatic toxicity. This product is a non-hazardous liquid fertilizer solution designed to supply potassium and sulfur to various crops.

6.3 Methods of Containment:

Small Release: Confine and absorb small releases with sand, earth or other inert absorbents.

Large Release: Shut off release if safe to do so. Dike spill area with earth, sand or other inert absorbents to prevent runoff into surface waterways (potential aquatic toxicity), storm drains or sewers.

6.4 Methods for Cleanup:**Small Release:**

Shovel up the absorbed material and place in drums for disposal as a chemical waste or recycle as a fertilizer as the original product was intended.

Large Release:

Recover as much of the spilled product as possible using portable pump and hoses. Use recovered material as originally intended or dispose of as a chemical waste. Treat remaining material as a small release (above).

6.5 Other Information:

Not applicable

Section 7: HANDLING and STORAGE
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7.1 Handling:

Avoid contact with eyes. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin.

7.2 Storage:

Store in well-ventilated areas. Do not store combustibles in the area of storage vessels. Keep away from any sources of heat or flame. Store totes and smaller containers out of direct sunlight at moderate temperatures. (See Section 10.5 for materials of construction.)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure Guidelines:

Chemical	OSHA PELs		ACGIH TLVs	
	TWA	STEL/C	TLV	STEL
Not applicable				

8.2 Engineering Controls:

Use adequate exhaust ventilation to prevent inhalation of product vapors. Keep eye wash/safety shower in areas where product is commonly handled.

8.3 Personal Protective Equipment (PPE):

8.3.1 Eye/Face Protection: Chemical goggles and a full face shield.

8.3.2 Skin Protection: Neoprene rubber gloves and apron should be worn to prevent repeated or prolonged contact with the liquid. Wash contaminated clothing prior to reuse.

8.3.3 Respiratory Protection: None generally required. If conditions exist where mist may be generated, a NIOSH/MSHA approved mist respirator should be worn.

8.3.4 Hygiene Considerations: There are no known hazards associated with this product when use as recommended, however common good industrial hygiene practices should be followed, such as washing thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL and CHEMICAL PROPERTIES

9.1 Appearance:	Brown liquid
9.2 Odor:	Lignin Odor
9.3 Odor Threshold:	Not determined
9.4 pH:	N/A
9.5 Melting Point/Freezing Point:	Salt Out Temperature <5°F (<-15°C) (<i>Typical</i>)
9.6 Boiling Point:	~222°F (106°C)
9.7 Flash Point:	Not applicable
9.8 Evaporation Rate:	Not applicable
9.9 Flammability:	Not applicable
9.10 Upper/Lower Flammability Limits:	Not applicable
9.11 Vapor Pressure:	Not determined
9.12 Vapor Density:	Not determined
9.13 Relative Density:	1.18 (9.9 lbs/gal) (<i>Typical</i>)
9.14 Solubility (in water):	Complete
9.15 Partition Coefficient:	Not applicable
9.16 Auto-ignition Temperature:	Not applicable
9.17 Decomposition Temperature:	Data not available.
9.18 Viscosity:	Data not available.

Section 10: STABILITY and REACTIVITY

10.1 Reactivity:	Avoid interaction with heat (flames), oxidizers or acids.
10.2 Chemical Stability:	This is a stable product under normal (ambient) temperature and pressure conditions.
10.3 Possibility of Hazardous Reactions:	None known
10.4 Conditions to Avoid:	Heating above 120°F (48.9°C)
10.5 Incompatible Materials:	Strong oxidizers.. This product is not compatible with lead or mercury or their alloys. These materials of construction should not be used in handling systems or storage containers for this product.
10.6 Hazardous Decomposition Products:	None Known.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Oral:	Not determined
11.2 Dermal:	Slightly irritating
11.3 Inhalation:	Not determined
11.4 Eyes:	Mildly to minimally irritating
11.5 Chronic/Carcinogenicity:	Not listed in NTP, IARC or by OSHA.
11.6 Teratology:	Not determined
11.7 Reproduction:	Not determined
11.8 Mutagenicity:	Not determined

Section 12: ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity:** Not determined.
- 12.2 Persistence & Degradability:** Not determined
- 12.3 Bioaccumulative Potential:** This product is not bioaccumulative.
- 12.4 Mobility in Soil:** Not determined
- 12.5 Other Adverse Effects:** Not determined

Section 13: DISPOSAL CONSIDERATIONS

Consult federal, state and local regulations for disposal requirements.

Section 14: TRANSPORT INFORMATION
14.1 Basic Shipping Description:

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|--------------------------------------|-----------------------------|
| 14.1.1 Proper Shipping Name: | Not <i>regulated by DOT</i> |
| 14.1.2 Hazard Classes: | Not applicable |
| 14.1.3 Identification Number: | Not applicable |
| 14.1.4 Packing Group: | Not applicable |
| 14.1.5 Hazardous Substance: | No |
| 14.1.6 Marine Pollutant: | No |

14.2 Additional Information:**14.2.1 Other DOT Requirements:**

14.2.1.1 Reportable Quantity:	Not applicable
14.2.1.2 Placard(s):	Not applicable
14.2.1.3 Label(s):	Not applicable

14.2.2 USCG Classification: Class 43, Misc. water solutions

14.2.3 International Transportation:

14.2.3.1 IMO:	Non-hazardous under IMO regulations.
14.2.3.2 IATA:	Non-hazardous under IATA regulations.
14.2.3.3 TDG (Canada):	Non-hazardous under TDG regulations.
14.2.3.4 ADR (Europe):	Non-hazardous under ADR regulations.
14.2.3.5 ADG (Australia):	Non-hazardous under ADG regulations.

14.2.4 Emergency Response Guide: Not applicable

14.2.5 ERAP – Canada: Not applicable

14.2.6 Special Precautions: None

Section 15: REGULATORY INFORMATION

15.1 U.S. Federal Regulations:

15.1.1 OSHA:	This product meets the criteria of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200).
15.1.2 TSCA:	Product is not contained in USEPA Toxic Substance Control Act Inventory.
15.1.3 CERCLA:	Reportable Quantity – Not applicable

15.1.4 SARA Title III:

15.1.4.1 Extremely Hazardous Substance (EHS): Not listed

15.1.4.2 Section 312 (Tier II) Ratings:

Immediate (acute)	Yes
Fire	No
Sudden Release	No
Reactivity	No
Delayed (chronic)	No

15.1.4.3 Section 313 (FORM R): Not applicable

15.1.5 RCRA: Not applicable

15.1.6 CAA (Hazardous Air Pollutant/HAP): Not applicable

15.2 International Regulations:**15.2.1 Canada:**

15.2.1.1 WHMIS: Not hazardous

15.2.1.2 DSL/NDL: Not Applicable.

15.3 State regulations:

15.3.1 CA Proposition 65: Not Applicable

Section 16: OTHER INFORMATION

REVISIONS: 5/10/2015

PREVIOUS REVISION: 4/1/2015

FURTHER INFORMATION:

The above information is based on data of which the manufacturer is aware and is believed to be correct as of the date hereon. Since the information contained herein may be applied under conditions beyond the manufacturer's control and which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, the manufacturer does not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.