

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY INFORMATION

Trade Name (as labeled): Core Magnesium Nitrate Solution
Common Name: Liquid Fertilizer
Manufactured By: CoreAgri, LLC
 Po Box 1027
 Arroyo Grande, CA 93421

Business Phone: (805) 201-9049

Emergency Phone: INFOTRAC – (800) 535-5053

Date of Preparation: June, 2009
 Updated December 2010

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Exposure Limits In Air	
		ACGIH TVL (ppm)	OSHA PEL (ppm)
Magnesium Oxide (MgO)	7786-30-3	NA	NA
Nitric Acid			
(H ₂ O)	7732-18-5	None	None
NE = Not Established		NA = Not Available	

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Emergency Overview: Yellowish to slightly tinted liquid with no odor. The primary health hazard associated with this product is the potential for moderate irritation of eyes, skin and other contaminated tissue. This product is not flammable or reactive.

Symptoms Of Over Exposure:

Eyes: May cause slight irritation with prolonged exposure and minor transient corneal injury.

Skin: Prolonged or repeated exposure may cause skin irritation.

Inhalation: May cause breathing difficulties with prolonged exposure. Remove to fresh air.

Ingestion: Possible nausea and vomiting. Ingestion of large amounts can cause irritation of stomach.

Injection: Accidental injection of this product via laceration or puncture by a contaminated object may cause pain and irritation in addition to the wound.

Hazardous Material Information Rating System:

(0 = least; 1 = slight; 2 = moderate; 3 = high; 4 = extreme)

Health (blue)

2

Flammability (red) 0

Reactivity (yellow) 0

SECTION 4. FIRST-AID MEASURES

<u>If Inhaled:</u>	Remove to fresh air. If breathing becomes difficult, contact a medical physician. Give artificial respiration if victim is not breathing and obtain immediate medical attention.
<u>If Ingested:</u>	Call physician or Poison Control Center immediately for most current information. Do not induce vomiting unless directed to do so by a medical professional. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If vomiting occurs, keep head lower than hips to prevent introduction of fluid into the lungs.
<u>In Case Of Skin Contact:</u>	Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if skin becomes irritated.
<u>In Case Of Eye Contact:</u>	Flush immediately with water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Call a physician if eye irritation persists.
Victims of chemical exposure and all rescuers must be taken for medical attention. Take a copy of label and MSDS to physician or health professional with victim.	

SECTION 5. FIRE-FIGHTING MEASURES

Flash Point:	Not Flammable
Test Method:	Not pertinent.
LEL Flammable Limits:	Not pertinent.
UEL Flammable Limits:	Not pertinent.
Autoignition Temperature:	Not pertinent.
Extinguishing Media:	Non-flammable liquid. Use media suitable to extinguish source of fire.
Unusual Fire and Explosion Hazards:	This product is a moderate irritant and presents a potential contact hazard to firefighters.
Special Firefighting Procedures:	Wear positive pressure, self-contained breathing apparatus (SCBA) and goggles. Avoid exposure to smoke or fumes. Contain any liquid runoff.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill And Leak Response: For small or incidental spills, the minimum personal protective equipment should be rubber gloves, rubber apron, and chemical goggles. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Gas masks or SCBA gear may be required. For large spills, contain by diking with soil or other non-combustible absorbent material. Keep material out of sewers, storm drains, and surface waters. Comply with all applicable government regulations on spill reporting, handling, and waste disposal.

SECTION 7. STORAGE AND HANDLING

<u>Storage Practices:</u>	Store in a cool (above 32°F), dry, well-ventilated area away from incompatible materials. This product should be stored in tanks constructed of stainless steel, fiberglass, polypropylene, or polyethylene. Valves should be inspected on a regular basis and replaced as needed to prevent leakage. Transfer equipment (valves, pumps, etc.) should be constructed of stainless steel or chemical-resistant plastic.
<u>Handling Practices:</u>	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling.
<u>Work/Hygiene Practices:</u>	Avoid getting chemicals ON YOU or IN YOU. Wash hands with soap and water after handling chemicals. Do not eat or drink around or while handling chemicals. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

<u>Ventilation/Engineering Controls:</u>	Use with adequate ventilation.
<u>Respiratory Protection:</u>	If work conditions generate vapors or mist, wear a NIOSH approved respirator appropriate for those emission levels. Appropriate respirator may be a full facepiece respirator, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator.
<u>Eye Protection:</u>	Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, contact lenses should not be worn when working with chemicals because they contribute to the severity of an eye injury.
<u>Hand Protection:</u>	Rubber gloves with gauntlets.
<u>Body Protection:</u>	Use body protection appropriate for task. Chemical-resistant coveralls and rubber aprons are generally acceptable.
<u>Other Protective Measures:</u>	An eyewash and safety shower should be nearby and ready for use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Yellowish to slightly tinted liquid.	<u>Boiling Point:</u>	>212 °F.
<u>Odor:</u>	None.	<u>Melting Point:</u>	NA.
<u>pH:</u>	3.0 to 3.5	<u>Freezing Point:</u>	<32 °F.
<u>Water Solubility:</u>	100%.	<u>Vapor Pressure:</u>	NA.
<u>Density:</u>	11.2 lbs/gallon.	<u>Vapor Density (air = 1):</u>	NA.
<u>Specific Gravity (H₂O = 1):</u>	1.34 @ 72 °F.		NA = Not Available.

SECTION 10. STABILITY AND REACTIVITY

<u>Stability:</u>	Stable.
<u>Conditions To Avoid:</u>	Extreme heat and contact with incompatible chemicals.
<u>Incompatibility:</u>	Sulfuric acid, nitric acid, caustics, ammonia, cyanides.
<u>Hazardous Polymerization:</u>	Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

<u>Toxicity Data:</u>	
MAGNESIUM NITRATE, HEXAHYDRATE:	
Standard Draize Test (Skin-Rabbit, adult) 500 mg/24 hours	

Mild irritation effects Standard Draize Test (Eye effects-Rabbit, adult) 500 mg/24 hour,

Mild irritation effects LD50 (Oral-Rat) 5440 mg/kg

Acute Effects:

Eyes: Mild irritant. May cause redness and/or burning.

Skin: Mild irritant, especially with prolonged exposure. May cause skin ulceration.

Ingestion: May cause stomach cramps and/or nausea.

Inhalation: Mild irritation of nose and throat. May cause dry coughing, wheezing, or chest tightness.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Stability: Magnesium is stable in the environment.

Effect Of Material On Plants/Animals: This product may be harmful to terrestrial plant or animal life, especially if released in large quantities.

Effect Of Material On Aquatic Life: High concentrations of magnesium have been shown to be detrimental to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Do not contaminate lakes, streams, ponds, estuaries, oceans, or other waters by discharge of waste effluents or equipment rinsate. Dispose of waste effluents according to federal, state, and local regulations. Chemical additions or other alterations of this product may invalidate any disposal information in this MSDS.

SECTION 14. TRANSPORTATION INFORMATION

This material is not hazardous as defined by 49 CFR 172.101 by the U.S Department of Transportation for ground transit.

PROPER SHIPPING NAME: Not Applicable

HAZARD CLASS NUMBER and DESCRIPTION: Not Applicable

UN IDENTIFICATION NUMBER: Not Applicable

PACKING GROUP: Not Applicable

DOT LABEL(S) REQUIRED: Not Applicable

NORTH AMERICAN EMERGENCY RESPONSE GUIDE NUMBER (2000): Not Applicable

MARINE POLLUTANT: This product does not contain any components which are designated by the Department of Transportation to be Marine Pollutants (per 49 CFR 172.101 Appendix B).

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This material is not considered as dangerous goods, per regulations of Transport Canada. Not Regulated by IMDG.

SECTION 15. REGULATORY INFORMATION

SARA Reporting Requirements: This material does not contain toxic chemicals subject to the reporting requirements of Section 313, Title III of the Superfund Amendments and Reauthorization Act of 1986.

California Proposition 65: WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent, industry recognized references including NIOSH, OSHA, ANSI, and NFPA. This information is, as of date listed above, true and accurate to the best of CoreAgri's knowledge. It is intended for use by persons possessing technical knowledge and at their own discretion and risk. Since actual use is beyond our control, no guarantee, express or implied, and no liability is assumed by CoreAgri, LLC in conjunction with the use of this information. Actual conditions of use and handling may require consideration of information other than, or in addition to, that which is provided herein.