# Agri Minerals

# **Safety Data Sheet**

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 01-May-2006
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 17-Sep-2013
 Version
 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name CHEM-STARTER LIQUID MAGNESIUM 4% Mg

Other means of identification

**SDS #** CNI-015

Recommended use of the chemical and restrictions on use

Recommended Use Plant Nutrients.

Details of the supplier of the safety data sheet

Supplier Address CNI AgriMinerals P.O. Box 3706 Albany, GA 31706

**Emergency Telephone Number** 

Company Phone Number 1-229-883-5538 (Business)

1-229-439-0842 (fax)

Emergency Telephone (24 hr) Chemtrec 1-800-424-9300 (North America) 1-703-527-3887 (International)

# 2. HAZARDS IDENTIFICATION

Appearance Water white liquid Physical State Liquid Odor Musty

# Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
A proprietary blend of Micronutrient citrates in an aqueous solution	Proprietary	100
Magnesium as derived from Magnesium Citrate	Proprietary	4 (Included in the above blend)

#### 4. FIRST-AID MEASURES

#### **First Aid Measures**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek

immediate medical attention/advice.

**Skin Contact** Remove contaminated clothing. Wash skin with soap and water. Wash clothing before

reuse. Get medical attention if irritation develops or persists.

**Inhalation** Remove to fresh air. Seek medical attention if irritation develops or persists.

**Ingestion** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Call a physician or poison

control center immediately.

# Most important symptoms and effects

Symptoms Direct contact with eyes may cause irritation or damage. Contact with skin may cause

irritation. May cause irritation to the mucous membranes and upper respiratory tract. Ingestion may cause irritation of the gastrointestinal tract, cramps, vomiting or diarrhea.

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#### Indication of any immediate medical attention and special treatment needed

**Notes to Physician**Treat symptomatically. Overexposure may aggravate pre-existing skin and lung disorders.

Chronic ingestion may cause damage to heart, liver, and blood-forming tissues. Ingestion of large quantities may cause headache, mental impairment, dizziness, and may be fatal.

# 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not release runoff from fire control methods to sewers or waterways.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

None.

Hazardous Combustion Products Metal oxide/oxides. Hydrogen chloride.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

For Emergency Responders Follow applicable OSHA regulations (29 CFR 1910.120).

Environmental Precautions Prevent runoff to sewers, streams, and other bodies of water. See Section 12 for additional

Ecological Information. See Section 13, Disposal Considerations, for additional information.

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#### Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so. For large spills, dike far ahead of spill for

later disposal.

Methods for Clean-Up For small spills, absorb with sand, clay, or other inert absorbent. For large spills contained

material may be salvaged for use if uncontaminated.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Use in accordance with product label instructions.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Store in closed, properly labeled containers in a cool, ventilated area. Keep away from

children, pets, domestic animals, and wildlife. Product may be corrosive to aluminum, mild steel and brass. Store in HDPE, fiberglass or stainless steel containers. Use only stainless

steel, PVC or polypropylene fittings.

Packaging Materials Do not reuse container. Empty containers should be triple rinsed and use the rinsate in

product tank.

**Incompatible Materials**None known based on information supplied.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

#### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

# Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin and Body Protection** Wear chemically protective gloves to prevent skin contact. Wear protective clothing.

Contaminated Equipment: Separate contaminated work clothes from street clothes.

Launder before reuse. Remove this material from your shoes and clean personal protective

equipment.

**Respiratory Protection** 

Respiratory protection suitable for ammonia vapors may be needed. Follow OSHA

respirator regulations (29 CFR 1910.134) and, if necessary, wear a

MSHA/NIOSH-approved respirator. Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. WARNING!: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

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General Hygiene Considerations Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

**Physical State** Liquid

**Appearance** Water white liquid Odor Musty

Color Water white **Odor Threshold** Not determined

Property Values Remarks • Method

Not determined рH Melting Point/Freezing Point ~ 0 °C / ~32 °F 93 °C / 200 °F **Boiling Point/Boiling Range** Flash Point Not available

**Evaporation Rate** Not determined Flammability (Solid, Gas) Liquid-not applicable

**Upper Flammability Limits** Not available **Lower Flammability Limit** Not available **Vapor Pressure** Not available **Vapor Density** Not available

**Specific Gravity** 1.218-1.228 Water Solubility

Completely soluble Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

(1=Water)

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

#### **Chemical Stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

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#### **Conditions to Avoid**

Keep out of reach of children. Avoid evaporating to dryness.

# **Incompatible Materials**

None known based on information supplied.

# **Hazardous Decomposition Products**

Metal oxides. Hydrogen chloride.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Avoid breathing vapors or mists.

**Ingestion** Do not taste or swallow.

Component Information Not available

Chemical Name Oral LD50		Dermal LD50	Inhalation LC50	
A proprietary blend of Micronutrient citrates in an aqueous solution	> 90 mL/kg (Rat)	-	-	
Magnesium as derived from Magnesium Citrate	= 230 mg/kg (Rat)	-	-	

# Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

### **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

<u>Component Information</u> Not available

# Persistence/Degradability

Not determined

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#### Bioaccumulation

Not determined

#### Mobility

Not determined

#### **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

#### **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

#### 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

#### **International Inventories**

Not determined

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

# SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

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# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Magnesium as derived from Magnesium Citrate	Х	X	X

# **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS_	Health Hazards	Flammability	Physical Hazards	Personal Protection
	Not determined	Not determined	Not determined	Not determined

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#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**