

# SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

### **Section 1: Chemical Product and Company Identification**

MANUFACTURER'S NAME **EMERGENCY TELEPHONE** 

HydroGro

7881 East Gray Road Scottsdale, AZ 85260 USA

Safety Data Sheet Competent Person: Customer Service

Chemtrec U.S.-Canada: 800-424-9300 Chemtrec International: 703-527-3887 Information: (480) 248-9336 (480) 248-9337

Sales@hydrogro.com

DATE PREPARED: November 25, 2015 **REVISION DATE: November 25, 2015** 

Cal Charge PRODUCT NAME: Preparation/Mixture FORMULA:

PRODUCT USE: Foliar feed and fertigation of specialty crops

### Section 2: Hazards Identification

**GHS Hazard Class** Not Applicable. This product does not meet the physical, health, or environmental classification criteria

of GHS (Globally Harmonized System).

Hazards not otherwise classified (HNOC) or not covered by GHS - None

Not classified as hazardous based on IATA, IMDG, and DOT. HAZARD CLASSIFICATION:

FIRE AND EXPLOSION: Not considered flammable or combustible, but this product may cause or contribute to combustion of

other material

Product emits toxic fumes when burned.

POTENTIAL HEALTH EFFECTS: <1 % of mixture consists of ingredients of unknown acute toxicity

APPEARANCE: Amber liquid

NFPA Rating:

| Component  | Health (Blue) | Flammability<br>(Red) | Reactivity<br>(Yellow) | Special (White) |
|------------|---------------|-----------------------|------------------------|-----------------|
| Cal Charge | 1             | 0                     | 0                      |                 |

# **Section 3: Composition, Information on Ingredients**

| PRODUCT<br>COMPOSITION | APPROX<br>% | CAS<br>NO. | EC NUMBER | CANADA<br>DSL |
|------------------------|-------------|------------|-----------|---------------|
| Water                  | < 70        | 7732-18-5  | 231-791-2 | Y             |
| Calcium Gluconate      | <20         | 299-28-5   | 206-075-8 | Y             |
| Magnesium Gluconate    | <5          | 3632-91-5  | 222-848-2 | Y             |
| Calcium Nitrate        | <2          | 10124-37-5 | 233-332-1 | Y             |
| Magnesium Nitrate      | <2          | 10377-60-3 | 233-826-7 | Y             |
| Boric acid             | <1          | 10043-35-3 | 233-139-2 | Y             |

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

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### Section 4: First Aid Measures

#### **Description of First Aid Measures**

Inhalation Remove to fresh air. If not breathing, provide CPR (cardio pulmonary

resuscitation). Get immediate medical attention.

Skin Contact Immediately wash skin with plenty of soap and water for at least 15 minutes.

Remove contaminated clothing. Get medical attention if irritation develops or

persists.

Eye Contact Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate

medical attention.

Ingestion Do NOT induce vomiting. Rinse mouth thoroughly with water. Give ½ to one

glass of water to dilute the material if victim is alert and not convulsing. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything to an unconscious person. Get immediate medical attention.

#### Most important symptoms and effects, both acute and delayed

Symptoms/Injuries after Inhalation May cause respiratory tract irritation.

Symptoms/Injuries after Skin Contact May cause mild skin irritation. Symptoms may include redness, drying, defatting, and

cracking of the skin.

Symptoms/Injuries after Eye Contact Causes mild eye irritation. Symptoms may include discomfort or pain, excess

blinking and tear production, with possible redness and swelling.

Symptoms/Injuries after Ingestion Mildly harmful if swallowed.

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

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

## **Section 5: Fire-fighting Measures**

Suitable extinguishing media

Special hazards arising from the substance or mixture

Protective actions fire-fighters

Further information

Use foam, dry chemical, carbon dioxide, or any media suitable to extinguish the surrounding fire

Release of toxic gases at elevated temperatures

Wear standard protective equipment and self contained breathing

apparatus for firefighting if necessary.

Containers could explode when heated above 225°F (107°)

### **Section 6: Accidental Release Measures**

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

Wear proper personal protective equipment. Avoid breathing fumes.

#### **Environmental precautions**

Prevent further spillage if safe to do so. Prevent spills or contaminated rinse water from entering sewers or watercourses.

#### Methods and materials for containment and cleaning up

In case of small spills, absorb with sand or other non-combustible absorbent material and put spilled material in a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

In case of large spills, dike far ahead of liquid spills. Absorb with inert material and put into a plastic container. Dispose of according to the requirements of your country, state, or local authorities.

Reference to other Sections For personal protection reference section 8. For disposal reference section 13.

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# Section 7: Handling and Storage

#### Precautions for safe handling

Use only with adequate ventilation.

Keep out of reach of children.

Wear proper protective equipment when handling this material.

Avoid contact with skin, eyes, or clothing.

Wash hands and face after handling this material.

A plastic container should be used for disposal.

For precautions see section 2.

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

Store upright in a cool, dry place.

Keep container closed when not in use.

Keep away from heat, in excess of 225°F (107°).

Do not store with acid, metallic oxide, amines, and combustible materials.

Utilize chemical segregation.

Follow all applicable local regulations for handling and storage.

#### Specific uses

This product is intended to be used for foliar feed and fertigation of specialty crops

# **Section 8: Exposure Controls/Personal Protection**

#### **Control Parameters**

Contains no substances with occupational exposure limit values.

NIOSH-- No Occupational exposure values

#### **Exposure controls**

Always provide good general, mechanical room ventilation where this VENTILATION:

chemical/material is used.

SPECIAL VENTILATION CONTROLS:

RESPIRATORY PROTECTION: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or the CEN

> European Standards (EU). Use a NIOSH/MSHA or European Standard (EN) approved respirator if exposure limits are exceeded or if irritation or other

symptoms are experienced.

PROTECTIVE GLOVES: Neoprene, butyl, or nitrile rubber gloves are recommended. EYE PROTECTION: Recommend eye protection using safety glasses or goggles.

SKIN PROTECTION: Suitable protective clothing to prevent skin contact

WORK/HYGIENE PRACTICES: Avoid breathing fumes. Avoid contact with eyes. Wash hands after handling. OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in

the work area.

## **Section 9: Physical and Chemical Properties**

|                                              | PRODUCT CRITERIA  |
|----------------------------------------------|-------------------|
| APPEARANCE - COLOR:                          | Amber             |
| PHYSICAL STATE:                              | Liquid            |
| ODOR:                                        | Pungent Odor      |
| ODOR THRESHOLD                               | No data available |
| PH                                           | 5.5               |
| MELTING POINT/FREEZING POINT:                | No data available |
| INITIAL BOILING POINT AND BOILING RANGE:     | > 100°C           |
| FLASH POINT:                                 | No data available |
| EVAPORATION RATE:                            | No data available |
| FLAMMABILITY (Solid, gas)                    | Not flammable     |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | Not Measured      |
| VAPOR PRESSURE                               | No data available |

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| VAPOR DENSITY (AIR = 1)                | No data available |
|----------------------------------------|-------------------|
| RELATIVE DENSITY (@25 °C):             | 1.30 (20°C)       |
| SOLUBILITY(IES)                        | Soluble in water  |
| OXIDIZING PROPERTIES                   | No data available |
| PARTITION COEFFICIENT: n-octanol/water | No data available |
| AUTO IGNITION TEMPERATURE              | No data available |
| DECOMPOSITION TEMPERATURE              | No data available |
| VISCOSITY                              | No data available |

## **Section 10: Stability and Reactivity**

Reactivity: Not reactive

Chemical Stability: Stable under recommended conditions.

Possibility of Hazardous Reactions: Will not occur under normal temperatures and pressures.

Conditions to Avoid: High temperatures, high pressure, and incompatible materials.

Incompatibility (Materials to avoid): Gluco-calcium is compatible with the majority of agricultural remedies. However,

it is advisable to do a miscibility test prior to mixing with other chemicals. Do not mix concentrate directly with other herbicides or pesticides concentrates – always dilute first. Do not mix Gluco-calcium with oxidizing materials or with any phosphate containing fertilizers. Calcium Nitrate is an oxidizing agent that can contribute to explosivity when mixed with different combinations of aluminum, ammonium nitrate, formamide, hydrocarbon oils, water-soluble fuels, and organic materials. Magnesium nitrate and dimethyl formamide undergo spontaneous

decomposition.

Hazardous Decomposition Products: Decomposition products include carbon dioxide, carbon monoxide, nitrogen oxide,

calcium oxide, and water which may form when heated to decomposition (+/-

285°F) (+/- 120°)

### **Section 11: Toxicological Information**

| GHS Required Criteria                  | Toxicity Criteria                                                                                                                                    | Toxicity Information | Comments   | Chemical Constituent |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------|----------------------|
| Acute Toxicity                         | LD50(Oral/Rat):                                                                                                                                      | 302 mg/kg            |            | Calcium Nitrate      |
|                                        | LD50(Oral/Rat):                                                                                                                                      | >5000 mg/kg          |            | Calcium Gluconate    |
| Skin Corrosion/Irritation              | Data not available                                                                                                                                   |                      |            |                      |
| Serious Eye Damage /<br>Eye Irritation | May cause eye irritation                                                                                                                             |                      |            | Magnesium Nitrate    |
| Respiratory or Skin Sensitization      | Data not available                                                                                                                                   |                      |            |                      |
| Germ Cell Mutagenicity                 | Data not available                                                                                                                                   |                      |            |                      |
| Carcinogenicity                        | NTP                                                                                                                                                  | Not listed           |            |                      |
|                                        | IARC                                                                                                                                                 | Not listed           |            |                      |
|                                        | OSHA                                                                                                                                                 | Not listed           |            |                      |
| Reproductive Toxicity                  | Data not available                                                                                                                                   |                      |            |                      |
| STOT Single Exposure                   | May damage organs (blood) May damage organs (blood)                                                                                                  |                      | Category 1 | Calcium Nitrate      |
|                                        |                                                                                                                                                      |                      | Category 1 | Magnesium Nitrate    |
| STOT – Repeated Exposure               | May cause damage to organs through prolonged or repeated exposure (blood)  May cause damage to organs through prolonged or repeated exposure (blood) |                      | Category 1 | Calcium Nitrate      |
|                                        |                                                                                                                                                      |                      | Category 1 | Magnesium Nitrate    |
| Aspiration Hazard                      | Data not available                                                                                                                                   |                      |            |                      |

STOT = Specific Target Organ Toxicity

## **Section 12: Ecological Information**

Chemical Constituent

|                                |                                                                           | Chemical Constituent |
|--------------------------------|---------------------------------------------------------------------------|----------------------|
| Toxicity:                      | LC50 = 2400mg/l fish (Bluegill), 96hr.                                    | Calcium Nitrate      |
| Persistence and degradability: | No information is available.                                              |                      |
| Bioaccumulative potential      | No information is available.                                              |                      |
| Mobility in soil:              | No information is available.                                              |                      |
| PBT and vPvB assessment:       | PBT/vPvB assessment not available as chemical assessment not required/not |                      |
|                                | conducted                                                                 |                      |

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Other adverse effects: No information is available.

### **Section 13: Disposal Considerations**

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

**Rinsate:** Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

### **Section 14: Transport Information**

DOT TRANSPORT: Not Regulated

ADR = International Carriage of Dangerous Goods by Road Not Regulated

SEA TRANSPORT: IMDG Not Regulated

AIR TRANSPORT: IATA/ICAO Not Regulated

### **Section 15: Regulatory Information**

### TOXIC SUBSTANCE CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA. All components are either listed on the TSCA inventory or are considered exempt.

# SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

#### CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

#### STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Massachusetts's hazardous substance(s):

New Jersey

Pennsylvania

Calcium Nitrate, Magnesium Nitrate

Calcium Nitrate, Magnesium Nitrate

Calcium Nitrate, Magnesium Nitrate

#### <u>CANADA:</u>

WHMIS-2015: This SDS is in compliance with WHMIS 2015 (HPR / new HPA).

#### **EUROPEAN UNION:**

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures.

### **Section 16: Other Information**

Initial issue date: November 25, 2015 Final revision date: November 25, 2015

Revision Number: (

Revision explanation Initial version

Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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