



## **Material Safety Data Sheet (MSDS): Calcium, Magnesium & Iron**

### **1) Identification of Substance/Preparation and Company/Undertaking**

Product Name	Calcium, Magnesium & Iron
Address	HS Supplies, LLC 8650 Genesee Ave. Ste. 214-928612 San Diego, CA. 92192 (858) 255-0576
Use	Liquid plant additive

### **2) Hazards Identification**



OSHA/HCS	Material considered hazardous by the OSHAS Hazard Communication Standard
Classification of Substance or Mixture	Serious Eye Damage - Category 1
Signal Word	Danger
Hazard Statement	Causes serious eye damage
Precautionary Statements	Wear eye or face protection. If in eyes - Rinse cautiously with water for several minutes, remove contact lenses. Call poison center or physician immediately.

### **3) Composition/Information on Ingredients**

Chemical Name (Mixture)	Calcium Nitrate, Magnesium Nitrate, Chelated Iron
Trade Name	Calcium, Magnesium & Iron
Product Appearance	Liquid, Amber (Dark)
CAS No(s)	Calcium Nitrate: 10124-37-5 Magnesium Nitrate: 10377-60-3 Chelated Iron: 15137-09-4

#### 4) Emergency and First Aid Procedures

Eyes	Seek medical attention immediately. Remove contact lenses if present. Flush eyes with water while occasionally lifting the upper and lower eyelids for at least 20 minutes. Chemical burns should be treated by a physician immediately. Symptoms: Pain, watering, redness.
Skin	Seek medical attention immediately. Wash contaminated skin with water. Wear gloves or thoroughly wash clothing with water before removing. Continue to rinse for at least 20 minutes. Clothing and shoes should be thoroughly washed before reuse. Symptoms: Pain or irritation, redness, blistering may occur.
Ingestion	Immediately wash mouth out with water. If swallowed, and the exposed person is conscious, give small amounts of water to drink. STOP in the event the person feels sick as vomiting can be dangerous. Vomiting should not be induced unless under the order of medical personnel. Nothing should ever be given to an unconscious person by mouth. If symptoms occur, seek medical attention. Symptoms: Stomach pains.
Inhalation	Exposed person should be removed to fresh air and kept at rest in a comfortable position for breathing. If the person is not breathing, breathing is irregular or respiratory arrest occurs, trained personnel should provide artificial respiration or oxygen. Maintain an open airway. Mouth to mouth resuscitation may be dangerous for the person providing aid. If symptoms occur, seek medical attention.

#### 5) Fire and Explosion Hazard Data

Fire Fighting Media	Extinguishing agent suitable to surround the fire.
Special Fire Fighting Procedures	Fire fighters should use self-contained breathing apparatus with a full face-piece operated in positive pressure mode and protective clothing.
Special Remarks on Fire and Explosion Hazards	Decomposition products may include nitrogen oxides and metal oxide/oxides.

## 6) Accidental Release Measures

Precautions	Keep unnecessary and unprotected individual from entering spill area. Do not touch or walk in spilled material. Avoid creating vapor or mist and provide adequate ventilation. Wear respirator when ventilation is inadequate and put on appropriate personal protective equipment.
Spills	Stop leak if able to do so without risk. Remove containers from spill area and approach cleanup from upwind. Entry into sewers, water courses, basements and confined areas should be prevented. Wash spill into an effluent treatment plant or proceed with cleanup as follows. Contain and collect spillage with absorbent and non-combustible material such as sand, earth, etc. and place in container for disposal. Disposal should be made in accordance to local regulations. Note contaminated absorbent material may pose the same hazard as spilled product.

## 7) Handling and Storage

Protective Measures	Wear appropriate personal protective equipment. Do not get in eyes or on skin/clothing. Avoid breathing vapor or mist and do not ingest. If, while using as directed, material presents a respiratory hazard, use only with adequate ventilation or wear an appropriate respirator. Material should be kept in original container or an approved alternative container made from compatible material. Keep tightly closed when not in use. Note empty containers retain product residue and may be hazardous. Do not reuse container.
Storage	Material should be stored in original container in a dry, cool and well-ventilated area protected from direct sunlight away from incompatible materials, food and drink. Container should be kept tightly closed and locked up until ready for use. Opened containers should be carefully resealed and kept upright to prevent any leakage. Do not store material in unlabeled containers. In order to avoid environmental contamination use appropriate containment methods.

## 8) Exposure Controls/Special Protective Information

Engineering Controls	If the users operations generate any dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering means to keep exposure levels to airborne contaminants below recommended or statutory limits.
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Environmental Exposure Controls	Ventilation or work process equipment should be checked to ensure emissions comply with requirements of environmental protection legislation.
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### *Individual Protection Measures*

Hygiene Measures	Wash hands, forearms and face thoroughly after handling material, before eating, smoking and using the lavatory as well as at the end of the work period.
Eye/Face Protection	If safety assessment indicates a risk of exposure to liquid splashes, mists, gases or dusts the following protection equipment should be worn: chemical splash goggles and/or face shield. If inhalation hazards exists, a full-face respiratory should be used.
Hand Protection	Where indicated necessary by risk assessment, chemical-resistant, impervious gloves should be worn when handling chemical products.
Body Protection	Protective body equipment should be determined based on the task and risks involved. Consult with a specialist before hand.
Other Skin Protection	Appropriate footwear and any additional protection should be selected based on the task and associated risks involved.
Respiratory Protection	Respirator that meets appropriated standard or certification based on hazard and potential for exposure. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## 9) Physical and Chemical Properties

Physical State	Liquid
Color	Dark Amber
Odor	Not Available
Odor Threshold	Not Available
pH	Not Available
Melting Point	Not Available
Boiling Point	100 Degrees C or 212 Degrees F
Flash Point	Not Available
Evaporation Rate	Not Available
Flammability	Not Available
Lower and Upper Explosive Limits	Not Available

Vapor Pressure	Not Available
Vapor Density	Not Available
Relative Density	Not Available
Solubility	Completely Soluble
Partition Coefficient: n-octanol/water	Not Available
Auto-Ignition Temperature	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available

### 10) Reactivity and Stability Data

Chemical Stability	Product is stable.
Health Hazard	Used under normal conditions, hazardous reactions will not occur.
Reactivity	N/A
Conditions to Avoid	Water of crystallization from applicable components driven off at approximately 235 Degrees F / 113 Degrees C.
Incompatible Materials	Corrosive to metals. Material reacts exothermally with strong bases and oxidizers.

### 11) Toxicological Information

Routes of Entry	Dermal contact. Eye Contact. Inhalation or Ingestion.
Potential Acute Health Effects	Serious Eye Damage
Symptoms	Eye Contact: Pain, watering, redness. Inhalation: N/A Skin Contact: Pain or Irritation, redness and blistering. Ingestion: Stomach Pains.
Chronic Effects on Humans	No known significant effects or critical hazards.

### 12) Ecological Information

No known significant effects or critical hazards.

### 13) Consideration Regarding Disposal

Waste should be avoided whenever possible. Disposal of this material, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Do not dispose of untreated waste into the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### 14) Information Regarding Transport

1) No special precautions or regulations.  
2) Transportation within users premises: Always transport in closed containers, upright and secure. Ensure person(s) transporting the product know proper procedures in event of accident or spillage.

### 15) Regulatory Information: N/A

16) **Other Information:** Classification - Serious Eye Damage Category 1.

#### **Notice:**

**While this MSDS is based on technical data judged to be reliable, HS Supplies, LLC assumes no responsibility for the accuracy or completeness of the information contained herein. All chemicals may pose unknown hazards and should be used with caution. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.**

MSDS Creation Date: May 2016

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