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**SECTION 1: Identification**

**1.1 GHS Product identifier**

Product name Cal-9™

**1.2 Other means of identification**

Cal-9  
6-0-0 + 9% Calcium

**1.3 Recommended use of the chemical and restrictions on use**

Commercial Agricultural / Horticultural Fertilizer

**1.4 Supplier's details**

Name	Ultra Gro LLC
Address	1043 S Granada Ave Madera CA 93637 USA
Telephone	(559) 661-0977
Email	office@ultragro.com

**1.5 Emergency phone number**

1-800-424-9300 - CHEMTREC - U.S. Canada, Puerto Rico - 24 Hrs

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**SECTION 2: Hazard identification**

**General hazard statement**

This product may be regulated, with exposure limits or other information identified as Water Dissociable Nitrate Compounds.

**2.1 Classification of the substance or mixture**

**GHS classification by OSHA (29 CFR 1910.1200, 2012)**

Not a hazardous substance or mixture.

**2.2 GHS label elements, including precautionary statements**

Not a hazardous substance or mixture.

**2.3 Other hazards which do not result in classification**

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). This product is considered hazardous under the criteria specified in the Canadian Workplace Hazardous Materials Information System (WHMIS).

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**Hazardous components**

**1. Calcium nitrate tetrahydrate**

Concentration	65 - 85 % (weight)
EC no.	233-332-1
CAS no.	10124-37-5

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**SECTION 4: First-aid measures**

**4.1 Description of necessary first-aid measures**

General advice: This product may be harmful or fatal if swallowed. It is irritating to the eyes, respiratory system, and skin. This product is an aqueous solution that will not burn. Irritating and toxic fumes and gases may be released during thermal processing or combustion.

If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, artificial respiration is applied. If irritation persists, get medical attention.

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

If you make eye contact, immediately flush your eyes with water for at least 15 minutes while holding your eyelids open. Seek medical attention at once.

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If swallowed, this product may be harmful or fatal. Ingestion can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Upon ingestion, methemoglobinemia may occur, which is characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma, and rarely death.

### 4.2 Most important symptoms/effects, acute and delayed

This product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma, and rarely death.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat Symptomatically

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

### 5.2 Specific hazards arising from the chemical

This product is an aqueous solution that will not burn. However, if evaporated to dryness, it is an oxidizer and can sustain combustion.

### 5.3 Special protective actions for fire-fighters

Firefighters should wear full protective clothing, including self-contained breathing apparatus.

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## SECTION 6: Accidental release measures

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

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear an appropriate respirator when ventilation is inadequate. Put on proper personal protective equipment (see Section 8).

### 6.2 Environmental precautions

Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

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

Small spill :

Stop leak if without risk. Move containers from the spill area. Dilute with water and mop up if water-soluble. If water-insoluble, absorb it with an inert dry material and place it in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill :

Stop the leak if it is without risk. Move containers from the spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows: Contain and collect the spillage with non-combustible, absorbent material, e.g., sand, earth, vermiculite, or diatomaceous earth, and place it in a container for disposal or reuse. Recovered material may be collected for intended use.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Open the container carefully, as needed, to relieve any pressure buildup. Do not get this material in your eyes, skin, or clothing. Do not inhale vapors or mists of this product. Use this product with adequate ventilation. Wash thoroughly after handling.

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

Store in a cool, dry area. Do not freeze. Store away from direct sunlight and any sources of heat. Empty product containers may contain product residue. Do not store this material in open or unlabeled containers.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. CALCIUM NITRATE TETRAHYDRATE SOLUTION (CAS: 10124-37-5)

### 8.2 Appropriate engineering controls

If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

A washing facility or water for eye and skin cleaning should be present. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases, or dust. Recommendation: safety glasses with side shields,

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### Skin protection

Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking, using the lavatory, and at the end of the working period. Wash contaminated clothing before reusing it.

### Body protection

Personal protective equipment for the body should be selected based on the task and risks involved.

### Respiratory protection

In case of inadequate ventilation, wear respiratory protection. Recommended Filter P2

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Colorless
Odor	Odorless.
Odor threshold	Not applicable
Melting point/freezing point	-31F
Boiling point or initial boiling point and boiling range	240F
Flammability	Non-flammable
Lower and upper explosion limit/flammability limit	Not Applicable
Flashpoint point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not Applicable
pH	5.0 - 6.0
Kinematic viscosity	Not Determined
Solubility	Miscible
Partition coefficient n-octanol/water (log value)	Not Determined
Vapor pressure	Not Determined
The evaporation rate	is the same as that of water
Density and/or relative density	1.4
Relative vapor density	13 hPa @ 20 °C (68 °F)

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity is available for this product or its ingredients.

### 10.2 Chemical stability

The product is stable.

### 10.3 Possibility of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur

### 10.4 Conditions to avoid

Avoid contamination by any source, including metals, dust, and organic materials

### 10.5 Incompatible materials

Strong acids, strong alkalis, combustible materials, reducing materials, organic materials

### 10.6 Hazardous decomposition products

Decomposition may yield calcium compounds and oxides of nitrogen.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Acute and Chronic Toxicity

A: General Product Information No information is available for the product.

The nitrate component of this product may cause methemoglobinemia upon ingestion characterized by cyanosis, headache, dizziness, fatigue, nausea, vomiting, drowsiness, stupor, coma, and rarely death.

B: Component Analysis - LD50/LC50 Calcium Nitrate Tetrahydrate (13477-34-4) Oral LD50 Rat : 3900 mg/kg

#### Skin corrosion/irritation

No known significant effects or critical hazards

#### Severe eye damage/irritation

Causes serious eye damage

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### Respiratory or skin sensitization

No known significant effects or critical hazards

### Germ cell mutagenicity

No components of this product are identified as a germ cell mutagen.

### Carcinogenicity

No component of this product is identified as a carcinogen.

### Reproductive toxicity

Based on available data, classification data are not met.

### Summary of evaluation of the CMR properties

No known significant effects or critical hazards.

### Specific target organ toxicity (STOT) - single exposure

No known significant effects or critical hazards.

### Specific target organ toxicity (STOT) - repeated exposure

No known significant effects or critical hazards.

### Aspiration hazard

No known significant effects or critical hazards.

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## SECTION 12: Ecological information

### Toxicity

This product may harm high concentrations of terrestrial and aquatic plant or animal life.

### Persistence and degradability

No known significant effects or critical hazards.

### Bioaccumulative potential

No known significant effects or critical hazards.

### Endocrine disrupting properties

No known significant effects or critical hazards.

### Other adverse effects

No ecotoxicity data are available for this product's components.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

#### Packaging disposal

Dispose of packaging material according to Local, State, Federal, and Provincial Environmental Regulations.

#### Waste treatment

Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, and sewers.

#### Sewage disposal

Avoid dispersal of spilled material, runoff, and contact with soil, waterways, drains, and sewers.

#### Other disposal recommendations

This material and its container must be disposed of safely. Care should be taken when handling emptied containers that have not been cleaned or rinsed. Collected material may be reused as intended.

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## SECTION 14: Transport information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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### SECTION 15: Regulatory information

#### 15.1 Safety, health, and environmental regulations specific to the product in question

##### New Jersey Right To Know Components

Common name: CALCIUM NITRATE

CAS number: 10124-37-5

##### US EPA TSCA public inventory

Chemical name: Calcium nitrate tetrahydrate

CAS number: 10124-37-5

#### 15.2 Chemical Safety Assessment

SARA 311/312: Acute Health Yes, Chronic Health No, Fire No, Pressure No, Reactive No  
State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

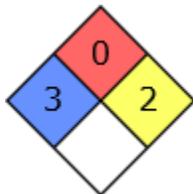
None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

All components are on the U.S. EPA TSCA Inventory List.

##### HMIS Rating

Cal-9	
HEALTH	3
FLAMMABILITY	
PHYSICAL HAZARD	
PERSONAL PROTECTION	A

##### NFPA Rating



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### SECTION 16: Other information

#### 16.1 Further information/disclaimer

The information and data contained herein are based upon facts considered correct as of the date. Information is supplied upon the condition that the persons receiving it will determine its suitability for their purposes before use. In no event will Ultra Gro, LLC be responsible for damages resulting from the use or reliance upon this information. No representations or warranties, expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder concerning information or the product to which this information refers.