Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Maxi Cal

SECTION 1: Identification

Product Identifier

Product Name: Maxi Cal

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Not determined or not applicable.
Uses Advised Against: Not determined or not applicable.
Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:
United States
GROW MORE INC
15600 NEW CENTURY DR.
GARDENA, CA 90248
3105151700
admin@growmore.com
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Emergency Telephone Number:

United States
GROW MORE INC
310-515-1700 (1-800-424-9300)

SECTION 2: Hazard(s) Identification

GHS Classification:

Acute toxicity (inhalation), category 4
Acute toxicity (oral), category 4
Skin irritation, category 2
Eye irritation, category 2A

Label elements

Hazard Pictograms:

Signal Word: Warning

Hazard statements:

H315 Causes skin irritation
H319 Causes serious eye irritation
H332 Harmful if inhaled
H302 Harmful if swallowed

Precautionary Statements:

P102 Keep out of reach of children

P264 Wash hands thoroughly after handling
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P261 Avoid breathing dust, fumes, gas, mist, vapors or spray.
P271 Use only outdoors or in a well-ventilated area
P270 Do not eat, drink or smoke when using this product
P302+P352 IF ON SKIN: Wash with plenty of water and soap.
P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
P332+P313 If skin irritation occurs: Get medical advice and attention.
P362 Take off contaminated clothing and wash it before reuse
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 If eye irritation persists: Get medical advice and attention.
P312 Call a POISON CENTER/doctor if you feel unwell
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P330 Rinse mouth
P501 Dispose of contents and container in accordance with federal, state and local regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 10124-37-5	Calcium nitrate	>1
CAS Number: 6484-52-2	Ammonium Nitrate	>1
CAS Number: 57-13-6	Urea	>1
CAS Number: 10377-60-3	Magnesium nitrate	>1
CAS Number: 10043-35-3	Boric acid	>1
CAS Number: 14025-15-1	Copper EDTA	>1
CAS Number: 15708-41-5	Iron EDTA	>1
CAS Number: 10377-66-9	Manganese Nitrate	>1
CAS Number: 13106-76-8	Ammonium Molybdate	>1
CAS Number: 10141-05-06	Cobaltous Nitrate	>1

Additional Information:
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After Eye Contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Acute inhalation exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of exposure may be delayed.

Immediate Medical Attention and Special Treatment

Specific Treatment:

Not determined or not applicable.

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Do not get on skin, eyes or on clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Harmful if inhaled. Put on appropriate personal protective equipment, including a self-contained breathing apparatus (see Section 8) before entering area of spill or leak. Avoid breathing dust, mist, fumes, vapors or spray. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Harmful if swallowed. Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Not determined or not applicable.

Conditions for Safe Storage, Including Any Incompatibilities:

Not determined or not applicable.

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Boric acid	10043-35-3	8-Hour TWA: 2 mg/m³ (Borate compounds, inorganic, inhalable fraction)
	Boric acid	10043-35-3	15-Minute STEL: 6 mg/m³ (Borate compounds, inorganic, inhalable fraction)

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Not determined or not applicable.

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Not determined or not available.
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.

Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:
Not reactive under recommended handling and storage conditions.

Chemical Stability:
Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:
Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:
Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.
Avoid confined spaces, extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:
None known.

Hazardous Decomposition Products:
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:
Harmful if inhaled.
Harmful if swallowed.

Product Data: No data available.

Substance Data:

Name	Route	Result

Name	Route	Result
Calcium nitrate	oral	LD50 Rat: >300 - <2000 mg/kg
	dermal	LD50 Rat: > 2000 mg/kg
Urea	oral	LD50 Rat: 11,500 mg/kg
Magnesium nitrate	oral	LD50 Rat: > 2000 mg/kg
	dermal	LD50 Rat: > 5000 mg/kg
Boric acid	oral	LD50 Rat: 3450 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg

Skin Corrosion/Irritation

Assessment:
Causes skin irritation.

Product Data:
No data available.

Substance Data:

Name	Result
Calcium nitrate	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:
Causes serious eye irritation.

Product Data:
No data available.

Substance Data:

Name	Result
Calcium nitrate	Causes serious eye irritation.

Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:
No data available.

Substance Data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Calcium nitrate	Group 2A
Urea	Not Applicable
Magnesium nitrate	Not Applicable
Boric acid	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Calcium nitrate	Not Applicable
Urea	Not Applicable

Name	Classification
Magnesium nitrate	Not Applicable
Boric acid	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data:

Name	Result
Boric acid	May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Other Information:

No data available.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Calcium nitrate	Fish LC50 Lepomis macrochirus: 2400 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 490 mg/L (48 hr)

Name	Result
Urea	Fish LC50 Danio rerio: 19,280 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >10,000 mg/L (24 hr [mobility])
Magnesium nitrate	Fish LC50 Oncorhynchus mykiss: >100 mg/L (96 hr [Read-across substance data])
	Aquatic Invertebrates EC50 Daphnia magna: 490 mg/L (48 hr [Read-across substance data])
	Aquatic Plants EC50 Benthic diatoms: >1700 mg/L (10 d [growth rate, Read-across substance data])
Boric acid	Fish LC50 Pimephales promelas: 79.7 mg/L (96 hr)
	Aquatic Plants EC50 Freshwater algae: 66 mg/L (72 hr [growth rate])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Urea	Fish EC10 Oreochromis mossambicus: 7247 mg/L (28 d [growth rate])
	Aquatic Invertebrates EC10 Daphnia magna: 140.7 mg/L (21 d [reproduction])
Magnesium nitrate	Fish NOEC Juvenile Fathead minnow: 58 mg/L (30 d [mortality, Read-across substance data])
Boric acid	Fish NOEC Pimephales promelas: 11.2 mg/L (32d [mortality])
	Aquatic Invertebrates NOEC Americamysis bahia: 33.1 mg/L (28d [mortality])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Calcium nitrate	Readily biodegradation study does not need to be conducted since the substance is inorganic.
Urea	The substance is readily biodegradable. 90 - 100% degradation in water, measured by DOC removal, after 21 days.
Magnesium nitrate	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
Boric acid	Biodegradability studies are not applicable to inorganic substances.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Calcium nitrate	Simple inorganic salts with high aqueous solubility will exist in a dissociated form in an aqueous solution. Such a substance has a low potential for bioaccumulation.
Urea	The substance is not expected to bioaccumulate (log Pow: < -1.73 at 22 °C).
Magnesium nitrate	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

Name	Result
Boric acid	Highly water soluble materials are unlikely to bioaccumulate to any significant degree. Borates all present essentially as undissociated and highly soluble boric acid at neutral pH. The available data indicate that both experimental data and field observations support the interpretation that borates are not significantly bioaccumulated.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Calcium nitrate	The physicochemical properties of the substance indicate that it can be expected to have a low potential for adsorption.
Urea	The substance is highly mobile, therefore, adsorption to soil and sediment is not expected (Koc: 0.037 - 0.064).
Magnesium nitrate	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Calcium nitrate	PBT assessment does not apply to inorganic substances.
Urea	The substance is not PBT.
Magnesium nitrate	PBT assessment does not apply to inorganic compounds such as this substance.
Boric acid	The PBT assessment does not apply to inorganic substances.

vPvB assessment:

Calcium nitrate	vPvB assessment does not apply to inorganic substances.
Urea	The substance is not vPvB.
Magnesium nitrate	vPvB assessment does not apply to inorganic compounds such as this substance.
Boric acid	The vPvB assessment does not apply to inorganic substances.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

Dispose of in accordance with local, federal and state regulations.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None

Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

10124-37-5	Calcium nitrate	Listed
10377-60-3	Magnesium nitrate	Listed

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

10377-60-3	Magnesium nitrate	Listed

New Jersey Right to Know:

10124-37-5	Calcium nitrate	Listed
10377-60-3	Magnesium nitrate	Listed
10043-35-3	Boric acid	Listed

New York Right to Know:

10124-37-5	Calcium nitrate	Listed
10377-60-3	Magnesium nitrate	Listed

Pennsylvania Right to Know:

10377-60-3	Magnesium nitrate	Listed

California Proposition 65: None of the ingredients are listed.
Additional information: Not determined.

SECTION 16: Other Information

Abbreviations and Acronyms: None
Disclaimer:

Although the information and recommendations set forth in this sheet are believed to be correct as of the date hereof, Grow More, Inc. makes no representation as to the completeness or accuracy of such information and recommendations. Grow More, Inc. shall in no event be responsible for any damages of whatsoever nature or indirectly resulting from the publication or use of or reliance upon such information and recommendations. You are encouraged to advise anyone working with or exposed to such products of the information contained herein. No warranty either expressed or implied of merchantability or fitness or of any other nature with respect to the product or to the information and recommendations herein made hereunder.

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HMIS: 0-0-0
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End of Safety Data Sheet