

Safety Data Sheet

Acidifier

Statement regarding ingredients of unknown toxicity

DOES NOT CONTAIN ANY SARA TITLE III, SECTION 313 SUBSTANCE SUBJECT TO REPORTING.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Hydronium

Concentration 45 - 70 % (weight)
CAS no. 12501-73-4

2. Calcium Hydrogen Sulfate

Concentration 3 - 7 % (weight)
CAS no. 1340-15-9

3. Hydronium Ion

Concentration 10 - 30 % (weight)
CAS no. 139680-80-6

4. Inert Ingredients

Concentration 10 - 30 % (weight)

Trade secret statement (OSHA 1910.1200(i))

Does not contain any SARA Title III, Section 313 Substance Subject to Reporting

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If irritation persists, call a poison control center or doctor immediately for treatment advice.
In case of skin contact	Take off contaminated clothing. Rinse skin immediately with plenty of soap and water for 15-20 minutes. If irritation persists, call a poison control center or doctor immediately for treatment advice.
In case of eye contact	Hold the eyelid open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor immediately for treatment advice.
If swallowed	Do not induce vomiting. Rinse mouth. If conscious, administer 3 – 4 large glasses of water to dilute. Do not induce vomiting. Do not give anything to an unconscious or convulsing person. CONSULT A PHYSICIAN.
Personal protective equipment for first-aid responders	No data available

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4.2 Most important symptoms/effects, acute and delayed

Inhalation: None other than the same as exposure to water vapor.

Ingestion: Sour taste. Excessive ingestion may result in diarrhea.

Skin contact: None expected. May irritate sensitive individuals.

Eye contact: Burning sensation. Tearing.

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

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use media suitable for the surrounding fire. No special media required. Material will not burn.

5.2 Specific hazards arising from the chemical

When heated to decomposition, this product will emit toxic oxides/fumes.

5.3 Special protective actions for fire-fighters

Wear full protective clothing and a positive-pressure self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Wear PPE according to Section 8.

6.2 Environmental precautions

Prevent spilled material from entering storm drains or water bodies. If material enters a waterway, notify the appropriate authorities.

Wastes of this product do not meet the US EPA RCRA definition of hazardous waste.

6.3 Methods and materials for containment and cleaning up

Contain material and place in containers for use as intended, or discard according to Federal, State, and Local regulations.

Reference to other sections

Steps to Be Taken in Case Material is Released or Spilled:

SPILLS: FLUSH TO SANITARY SEWER. LARGER SPILLS: NEUTRALIZE WITH SODIUM CARBONATE OR LIME.

Waste Disposal Method: DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. BUT LOCAL REQUIREMENTS MAY VARY.

Precautions to Be Taken in Handling and Storing: KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions: KEEP THIS AND ALL CHEMICALS OUT OF REACH OF CHILDREN.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wash your hands after handling the material. Do not eat, drink, or smoke while handling the material. Avoid breathing vapor/mists. Not intended for human consumption.

7.2 Conditions for safe storage, including any incompatibilities.

Do not store with food or feedstuffs. Store in a cool, dry, well-ventilated area away from incompatible materials.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. UG Liquid Fertilizer Blend

8.2 Appropriate engineering controls

Avoid contact with skin, eyes, and clothing. Wash your hands before breaks and immediately after handling the product.

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

Eye/face protection

Use chemical safety goggles and/or a full face shield when splashing of solutions is possible. Maintain eyewash and quick-drench facilities in the work area.

Skin protection

Wear impervious protective clothing, including boots, gloves, a lab coat, an apron, or coveralls, as appropriate to prevent skin contact.

Body protection

Wear impervious protective clothing, including boots, gloves, a lab coat, an apron, or coveralls, as appropriate to prevent skin contact.

Respiratory protection

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. NIOSH-approved particulate/mist respirator, if required.

For emergencies or instances where exposure levels are unknown, use a full-face, positive-pressure, air-supplied respirator.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Colorless
Odor	bland order
Odor threshold	No data available
Melting point/freezing point	20F
Boiling point or initial boiling point and boiling range	Not applicable
Flammability	Not flammable
Lower and upper explosion limit/flammability limit	No data available
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	<2
Kinematic viscosity	Not available
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	No data available
Vapor pressure	No data available
Evaporation rate	>1
Density and/or relative density	1.06 8.83 #/gal
Relative vapor density	Not available

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SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions of use and storage.

10.2 Chemical stability

The product is stable

10.3 Possibility of hazardous reactions

The product is stable

10.4 Conditions to avoid

Acids are potent oxidizing agents.

10.5 Incompatible materials

Chlorates, nitrates, Strong oxidizing agents

10.6 Hazardous decomposition products

When heated (in a fire), it may give off carbon dioxide, carbon monoxide, and calcium oxide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

Irritating to the skin.

Severe eye damage/irritation

May cause temporary and reversible eye irritation.

Respiratory or skin sensitization

May irritate the skin, respiratory tract, mucous membranes, and gastrointestinal tract.

Germ cell mutagenicity

No known significant effects or critical hazards

No known mutagenicity effects/

Carcinogenicity

None of the ingredients is known to be listed carcinogens.

Reproductive toxicity

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 is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

Persistence and degradability

This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

Bioaccumulative potential

This product is not known to be ecotoxic, persistent, or have the potential to bioaccumulate.

Mobility in soil

No known significant effects or critical hazards.

Endocrine-disrupting properties

No known significant effects or critical hazards.

Other adverse effects

No long-term degradation problems expected

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Use the product for its intended purpose where possible.

Dispose of in accordance with all national, regional / state, and local regulations.

The product does not meet the US EPA definition as a RCRA hazardous waste.

Packaging disposal

Triple rinse and dispose of in accordance with the federal, state, and local laws and regulations

Other disposal recommendations

Reuse recovered product where possible.

SECTION 14: Transport information

14.1	UN Number	None
14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None
14.6	Special precautions for the user	None
14.7	Transport in bulk according to IMO instruments	None

SECTION 15: Regulatory information

15.2 Chemical Safety Assessment

SARA Title III Information:

Section 302: None listed

Section 311/312: Yes

Section 313: None listed

CERCLA: None listed

California Proposition 65: None listed.

U.S. State Worker and Community Right-To-Know (RTK) Information:

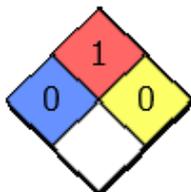
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HMIS Rating

Acidifier	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

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

16.2 Preparation information

PREPARED BY: ULTRA GRO, LLC