



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Pristiva Acid Enhance

CAS #: 506-89-8

Product use: pH Decreaser/Muriatic Acid Replacement

Supplier: Pristiva c/o Backyard Brands, Inc.
BACKYARD BRANDS, INC• 401 S. Enterprise Blvd.
Lebanon, IN 46052 USA • 1-866-875-0012

24 HR. EMERGENCY TELEPHONE NUMBERS

Poison Control Center (Medical): (877) 800 - 5553

CANUTEC (Canadian Transportation): (613) 996 - 6666

CHEMTREC (US Transportation): (800) 424 - 9300

NFPA RATING:

HEALTH	2
FIRE	0
REACTIVITY	0

HMIS RATING:

HEALTH:	/	2
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		B

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

2. Hazards Identification

Emergency Overview: This product is a colorless to slight amber liquid with a mild odor. It is corrosive to the eyes and a mild skin irritant. If ingested, this product may be harmful or fatal.

Potential Health Effects:

Eye: Causes burns to the eyes.
Acute eye irritation/corrosion test: This product was found to be Corrosive to the eyes when tested using the Modified Draize method (OECD Guidelines for Testing of Chemicals, Sec. 4-5, 1992.)

Skin: Prolonged or repeated contact can cause irritation.
Non Corrosive to Skin: (as defined and tested in accordance with the U.S. OSHA's Hazard Communication Standard, DOT Hazardous Material Regulations, Canada's WHMIS regulations and TDG Regulations. Classified as a mild skin irritant as per the 1992 OECD Guideline for Testing of Chemicals, Number 404 "Acute Dermal Irritant/Corrosion.")

Ingestion: This product may be harmful or fatal if ingested.

Inhalation: Not a likely route of exposure due to physical properties. Product has a low vapor pressure at room temperature and is not expected to present a significant inhalation hazard under ambient conditions. Product can be irritating to the respiratory tract, if inhaled as a mist or if the material is vaporized.

Chronic Effects:

Skin: Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP or ACGIH.

Teratogenicity, Mutagenicity, Reproductive Effects: This product was found not to be mutagenic when tested by the Ames Assay (OECD Guidelines for Testing of Chemicals, Sec.471)

Synergistic Materials: Not available.

Potential environmental Effects: No data available.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Organic Salt	506-89-8	60-100

4. First Aid Measures

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

Skin: Immediately flush with mild soap and water for 15 minutes. Seek medical attention if irritation develops. Remove contaminated clothing and launder before reuse.

Eye: Immediately flush with water for 15 minutes. Seek medical attention.

Ingestion: **Do not** induce vomiting. If conscious, give 3-4 glasses of water to dilute and get immediate medical care.

5. Fire Fighting Measures

Flammability:	Not flammable.
Flash Point (°F, °C, PMCC):	Does not ignite.
Autoignition Temperature (°F, °C):	Not applicable
Flame Propagation or Burning Rate of Solid Materials:	Not applicable
Sensitivity to Mechanical Impact:	Not applicable
Sensitivity to Static Discharge:	Not applicable
Extinguishing Media:	Water spray, carbon dioxide and dry chemical
Special Fire Fighting Procedures:	Evacuate personnel to a safe area. Keep containers cool with water spray. Avoid breathing decomposition products. Wear self-contained breathing apparatus and full body protection.
Unusual Fire & Explosion Hazards:	At temperatures above 60°C/140°F acid action on most metals may release hydrogen, a highly flammable and explosive gas.
Hazardous Decomposition Products:	Thermal decomposition may yield oxides of carbon, nitrogen and chlorine. Hydrogen gas may be released upon contact with certain metals.

6. Accidental Release Measures

Leak and Spill Procedure: Evacuate area. Ventilate area. Collect for disposal. Clean up remaining materials from spill with suitable absorbent. Small spills may be absorbed with non-reactive absorbent (sand) and placed in suitable, covered, labelled containers. For large spills, provide diking or other appropriate containment to keep material from spreading. Prevent large spills from entering sewers or waterways. If diked material can be pumped, store recovered material in compatible drums for recovery or disposal. Observe all personal protection equipment recommendations.

7. Handling and Storage

Keep Out Of Reach Of Children: Keep container tightly closed. Store in fiberglass, polyethylene, or polypropylene containers. Do not store in metal containers, especially aluminum. Storage in certain metal containers at temperatures above 60°C/140°F may result in hydrogen gas evolution. Do not store at temperatures above 48°C/120°F.

8. Exposure Controls / Personal Protection

Engineering Controls:	If current ventilation practices are not adequate for minimizing exposures, additional ventilation or exhaust systems may be required.
Respiratory Protection:	Not normally required if good ventilation is maintained. Avoid breathing vapor and/or mist.
Eye Protection:	Use chemical goggles or full face shield.
Skin Protection:	Use impervious (rubber, nitrile) gloves.
Other Protective Clothing or Equipment:	Eye Bath, Safety Shower, Full Protective Clothing.
Work Hygienic Practices:	The usual precaution for the handling of chemicals must be observed.

9. Physical & Chemical Properties

Appearance:	Clear amber liquid
Activity, %:	60% Typical
Specific Gravity (H₂O = 1):	1.21 +/-0.2
Density (25°C):	10.1 lbs./gal
Solubility in Water:	Soluble (100% in water)
Boiling Point:	100°C/212°F
Freezing Point:	<-30°C
Odor:	Mild Odor
pH:	0.7 (Typical)
pKa:	0.176
Normality:	7.4 +/- 0.2

10. Chemical Stability & Reactivity Information

Stability:	Stable up to 110°C / 230°F
Conditions to Avoid:	Heating about 110°C results in an exothermic decomposition with rapid release of CO ₂ gas.
Incompatible Materials:	Avoid contact with oxidizers. This material may be extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorites (e.g. chlorine bleach, sulfides or cyanides will liberate toxic gases. Contact with alkaline materials (e.g. aqua ammonia) will generate heat.
Hazardous Decomposition Products:	Thermal decomposition may yield oxides of carbon, nitrogen and chlorine. Hydrogen gas may be released upon contact with certain metals.
Hazardous Polymerization:	Will not occur.

11. Toxicological Information

Carcinogenicity:	Non-hazardous by WHMIS/OSHA criteria. Not listed by IARC, NTP or ACGIH.
Teratogenicity, Mutagenicity, Reproductive Effects:	This product was found <u>NOT</u> to be mutagenic when tested the Ames Assay, (OECD Guidelines for Testing Chemicals, Sec.471)
Synergistic Materials:	Not available
Acute Eye Irritation/Corrosion Test:	This product was found to be Corrosive to the eyes when tested using the Modified Draize method (OECD Guidelines for Testing of Chemicals, Sec. 4-5, 1992.)

12. Ecological Information

Ecotoxicity: 96 hour $LC_0 > 140$ mg/L (rainbow trout), 48 hour LC_{50} 71.1 mg/L (ceriodaphnia dubia), 15 minute IC_{50} 16.23% effect at a concentration of 10 mg/L (Vibrio fischeri, 4H6002)

Environmental Fate: Urea is biodegradable.

13. Disposal Considerations

Review federal, provincial or state and local government requirements prior to disposal.

14. Transport Information

U.S. Department of Transportation: Not Regulated.

Proper Shipping Name: N/A
Hazard Class: N/A
ID Number: N/A
Packing Group: N/A

Canadian T.D.G. Regulated Material

Proper Shipping Name: Corrosive Liquid, N.O.S.
Contains (urea monohydrochloride)
Hazard Class: 8
ID Number: UN 1760
Packing Group: III

***Note: This material is corrosive to Aluminum only. Non-Corrosive to Skin & Mild Steel.**

Water Transportation (IMDG): Regulated Material

Proper Shipping Name: Corrosive Liquid, N.O.S.
Contains (urea monohydrochloride)
Hazard Class: 8
ID Number: UN 1760
Packing Group: III

***Note: This material is corrosive to Aluminum only. Non-Corrosive to Skin & Mild Steel.**

Air Transportation (IATA): Regulated Material

Proper Shipping Name: Corrosive Liquid, N.O.S.
Contains (urea monohydrochloride)
Hazard Class: 8
ID Number: UN 1760
Packing Group: III

***Note: This material is corrosive to Aluminum only. Non-Corrosive to Skin & Mild Steel.**

15. Regulatory Information

Occupational Health & Safety Regulations:

WHMIS Classification: Class D – Division 2B

Class E – Note: This material is corrosive to Aluminum only. Non-Corrosive to Skin & Mild Steel

OSHA & WHMIS: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) and Canadian WHMIS regulations (Controlled Products Regulations under the Hazardous Products Act.)

Environmental Regulatory Lists:

SARA: Section 313 (Toxic Chemical Release Reporting) 40 CFR 372 – None of the ingredients are listed.

Toxic Substances

Control Act (TSCA): All the ingredients are listed on the Chemical Substance Inventory.

Canadian Domestic

Substance List (DSL): All ingredients are listed.

INTERNATIONAL INVENTORY LISTINGS:

Components in this product are listed on the:
Australian AICS

16. Other Information

COMMENTS:

The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard, National Fire Protection Association (NFPA), Hazardous Materials Identification System (HMIS), and Canada's Workplace Hazardous Information System (WHMIS) and Environmental Protection Agency (CEPA).

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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