



# 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:**

<b>HEALTH:</b>	/	2
<b>FLAMMABILITY:</b>		0
<b>PHYSICAL HAZARD:</b>		0
<b>PERSONAL PROTECTION:</b>		B

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

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## 2. Hazards Identification

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**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.

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## 3. Composition / Information on Ingredients

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

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## 4. First Aid Measures

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**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.

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## 5. Fire Fighting Measures

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<b>Flammability:</b>	Not flammable.
<b>Flash Point (°F, °C, PMCC):</b>	Does not ignite.
<b>Autoignition Temperature (°F, °C):</b>	Not applicable
<b>Flame Propagation or Burning Rate of Solid Materials:</b>	Not applicable
<b>Sensitivity to Mechanical Impact:</b>	Not applicable
<b>Sensitivity to Static Discharge:</b>	Not applicable
<b>Extinguishing Media:</b>	Water spray, carbon dioxide and dry chemical
<b>Special Fire Fighting Procedures:</b>	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.
<b>Unusual Fire &amp; Explosion Hazards:</b>	At temperatures above 60°C/140°F acid action on most metals may release hydrogen, a highly flammable and explosive gas.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may yield oxides of carbon, nitrogen and chlorine. Hydrogen gas may be released upon contact with certain metals.

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## 6. Accidental Release Measures

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**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.

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## 7. Handling and Storage

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**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.

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## 8. Exposure Controls / Personal Protection

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

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## 9. Physical & Chemical Properties

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<b>Appearance:</b>	Clear amber liquid
<b>Activity, %:</b>	60% Typical
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.21 +/-0.2
<b>Density (25°C):</b>	10.1 lbs./gal
<b>Solubility in Water:</b>	Soluble (100% in water)
<b>Boiling Point:</b>	100°C/212°F
<b>Freezing Point:</b>	<-30°C
<b>Odor:</b>	Mild Odor
<b>pH:</b>	0.7 (Typical)
<b>pKa:</b>	0.176
<b>Normality:</b>	7.4 +/- 0.2

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## 10. Chemical Stability & Reactivity Information

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<b>Stability:</b>	Stable up to 110°C / 230°F
<b>Conditions to Avoid:</b>	Heating about 110°C results in an exothermic decomposition with rapid release of CO <sub>2</sub> gas.
<b>Incompatible Materials:</b>	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.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may yield oxides of carbon, nitrogen and chlorine. Hydrogen gas may be released upon contact with certain metals.
<b>Hazardous Polymerization:</b>	Will not occur.

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## 11. Toxicological Information

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

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## 12. Ecological Information

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**Ecotoxicity:** 96 hour LC<sub>0</sub> >140 mg/L (rainbow trout), 48 hour LC<sub>50</sub> 71.1 mg/L (ceriodaphnia dubia), 15 minute IC<sub>50</sub> 16.23% effect at a concentration of 10 mg/L (Vibrio fischeri, 4H6002)

**Environmental Fate:** Urea is biodegradable.

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## 13. Disposal Considerations

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

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## 14. Transport Information

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**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.**

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## 15. Regulatory Information

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**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

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## 16. Other Information

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**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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<b>Prepared by</b>	<b>Backyard Brands, 1-866-875-0012</b>