



# Deliming Solution

## FOOD SERVICE PRODUCTS

**DESCRIPTION:** Brilliant's Deliming Solution is a concentrated, low foam acid detergent designed for the removal of lime scale, iron stains and other tough deposits characteristic of hard water conditions and alkali detergents used in ware-wash equipment. **Deliming Solution** for use on the internal surfaces of dish machine. This product can be used in a trigger sprayer for spot cleaning dish machines between deliming cycles for those persistent stains. Stubborn buildup can be removed using a medium bristle brush. **Deliming Solution** is also perfect for tough stains on steam tables.

### DIRECTIONS:

- Use 8 ounces of **Deliming Solution** for every gallon of water in the wash or rinse tank of your dishwashing machine.
- Run dish machine for 15 minutes to allow complete circulation of product.
- Drain then rinse machine thoroughly.
- Charge machine with **Brilliant's Automatic Liquid Dish Machine Detergent** and allow to run 5 minutes.
- Drain and rinse again.

### PACKAGING:

SIZE  
4/1 gallon  
55 gallon barrel

CATALOG #  
64101304  
64101355

### PRODUCT SPECIFICATIONS

Appearance:	Clear Liquid
Color:	Light Red
Odor:	Mild Soap
pH:	1 - 2 @ 10% solution
Specific Gravity:	1.070 - 1.150
Viscosity:	<10

ISO 9001:2000 Certified  
Certificate No. 2049



**EAGLE** Registrations Inc.  
SERVICE • INTEGRITY • VALUE

**BRILLIANT PRODUCTS**  
P. O. Box 1425 Avon Park, FL 33826  
Phone: 813-890-6594 Fax: 813-890-2101



**CONTROLLED**

Issue Date:05/15/08  
Form PB641013B, Rev (F)

**MATERIAL SAFETY DATA SHEET**

Prepared By: L. Peterson

(Prepared According to 29 CFR 1910.1200)

Effective Date: 3/6/08

**SECTION 1- PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION**

**Product Name:** DELIMING SOLUTION  
**Generic Name:** Lime scale remover  
**Product Group:** Food Service Products

**Manufacturer's Name:** BRILLIANT PRODUCTS  
 P.O. BOX 1425  
 AVON PARK, FL 33826  
**Phone #:** (813)-890-6594

**SECTION 2- INGREDIENT INFORMATION**

CHEMICAL NAME	CAS #	WT %	PEL	TWA-TLV	STEL-TLV
Phosphoric Acid	7664-38-2	32%	1 Mg/m <sup>3</sup>	1 Mg/m <sup>3</sup>	3 Mg/m <sup>3</sup>

No Components, in excess of 0.1% by weight are listed as carcinogens by IARC, NTP or OSHA

**SECTION 3- PHYSICAL DATA**

**Boiling Point:** (° F): 210 F.  
**Vapor Pressure:** <20 mm Hg @ 68° F  
**% Volatile:** 83  
**Solubility in Water:** Complete  
**Physical Description:** Clear red Liquid, mild soap odor.

**Specific Gravity:** 1.070 – 1.150  
**Vapor Density (Air=1):** 1.1  
**pH:** 1 - 2, 10% SOLUTION  
**Evaporation Rate (Water=1):** <1

**SECTION 4- FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** N.A.  
**Extinguishing Media:** N.A.  
**Special Firefighting Procedures:** None Flammable  
**Unusual Fire/Explosion Hazards:** N.A.  
**Upper Explosion Limits/Lower Explosion Limits:** N.A.

**SECTION 5- REACTIVITY DATA**

**Stability:** Stable  
**Hazardous Decomposition Products:** Thermal decomposition may yield phosphorus.

**Incompatibility (erials to Avoid):** Strong alkalis and oxidizers. Avoid contact with aluminum, brass, soft metals.  
**Hazardous Polymerization:** Will not occur.

**SECTION 6- STORAGE AND HANDLING INFORMATION**

Keep container closed when not in use. Protect container from abuse. Protect from extreme temperatures. **CAUTION:** Material is corrosive.

**SECTION 7- HEALTH HAZARDS AND FIRST AID**

**Effects of Overexposure**  
**Skin:** Corrosive and irritating; chemical burns may result from contact.  
**Eyes:** Corrosive, contact with eyes is painful and irritating and will cause chemical burns.  
**Inhalation:** Corrosive and irritating to upper respiratory tract and mucous membranes.  
**Ingestion:** Corrosive and irritating to digestive tract, vomiting may occur.

**First Aid Procedures**  
**Skin:** Remove contaminated clothing, wash contacted area with soap and water. If irritation persists, seek medical attention.  
**Eyes:** Flush with water, get medical attention immediately.  
**Inhalation:** Remove to fresh air. Seek medical attention if irritation persists.  
**Ingestion:** Drink two glasses of water followed by milk or milk of magnesia, do not induce vomiting. Get medical attention immediately.

**SECTION 8- SPECIAL PROTECTION INFORMATION**

**Respiratory Protection:** none required for normal use  
**Ventilation Requirements:** mechanical  
**Protective Gloves:** neoprene or rubber  
**Eye Protection:** Safety glasses or chemical splash goggles.  
**Other Protective Equipment:** safety eye bath nearby.

**SECTION 9-Spill OR LEAK PROCEDURES**

**Cleanup Procedure for Spills:** Floor will become slippery. Avoid walking in product. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.  
**Waste Disposal:** Dispose in accordance with local, state and federal regulations. Consult local authorities for disposal in public sewer.

**SECTION 10-REGULATORY INFORMATION**

<p>SARA Title III – Section 311/312 – Hazard: (Y/N): Y Section 313  <b>Fire:</b> N  <b>Sudden Release of Pressure:</b> N  <b>Reactivity:</b> Y  <b>Acute (IMMEDIATE) Health Hazard:</b> Y  <b>Chronic (DELAYED) Health Hazard:</b> N  <b>Other:</b> May aggravate pre-existing skin, eye or respiratory conditions with long term exposure.</p>	<p><b>Shipping Information</b>  <b>Shipping Name:</b> Corrosive liquid, acidic, inorganic, nos  <b>Hazard Class:</b> 8  <b>Reference:</b> 49 CFR 172.101  <b>Identification:</b> UN3264  <b>Label:</b> Corrosive</p>	<b>HMIS Hazardous Material Identification System</b>	
		<b>Health</b>	<b>2</b>
		<b>Flammability</b>	<b>0</b>
		<b>Reactivity</b>	<b>0</b>
		<b>Personal Protection</b>	<b>C</b>

For **emergency** and **medical** help line, call **INFOTRAC** at **1-800-535-5053**, 24 hours a day, 7 days a week for information on all our products and/or MSDS. Obtain an MSDS at [www.pride-enterprises.org/MSDS/menu.htm](http://www.pride-enterprises.org/MSDS/menu.htm) or call customer service at **(813)-890-6594**.

**SECTION 11- OTHER INFORMATION**

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts No responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept NO liability for damages or loss incurred from the improper handling and use of this product.