

IDENTITY (As used on Label and List)

**CHEM-CREST 165**

Uses: Ultrasonic liquid detergent concentrate used for the removal of oils, greases, carbon residues, various oxides, particulate matter, and various other contaminants from steels, ceramics, glasses, and other compatible materials. Contact a Crest Ultrasonics chemical specialist for process specific recommendations

**Section I – Product and Company Identification**

Supplier:  
CREST ULTRASONICS CORPORATION  
18 GRAPHICS DRIVE  
EWING, NJ 08628, UNITED STATES OF AMERICA  
[www.crest-ultrasonics.com](http://www.crest-ultrasonics.com)

Emergency Telephone Number  
(800) 424-9300 (USA Chemtrec) or (703) 527-3887 (Int'l Chemtrec)  
Telephone Number for Information  
(609) 883-4000

Last update: 19 May 2014

**Section II – Hazards Identification****Appearance** – Clear to tan liquid, surfactant odor**GHS Classification:**

Acute toxicity, Oral (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2A)

**Pictogram:** None**HMIS Classification:** Health: 1 Fire: 0 Physical: 0**NFPA Rating:** Health: 1 Fire: 0 Reactivity: 0**Signal Word:** None**Hazard Statements:**

H303: May be harmful if swallowed.

H315: Causes skin irritation

H319: Causes serious eye irritation

**Precautionary statements:**

P280: Wear protective gloves / protective clothing / eye protection / face protection

P305 + P351 + P338: If eyes are exposed: Rinse continuously with water for 15 minutes minimum, ensuring to remove contact lenses if present and easy to do.

P310: Call poison control center and/or doctor/healthcare professional immediately

**Recommended Personal Protective Equipment:**

PVC-lined, neoprene, nitrile rubber, or polyethylene gloves, chemical splash goggles, and use good handling practices. Wear face guard and chemical apron when appropriate, as well as long pants and boots. Avoid splashing and spilling. Eye wash should be available in area. Wash hands before handling food after using any chemical.

**Section III – Composition / Information on Ingredients**

COMPONENTS:	% ACTIVE	OSHA PEL	EC#	CAS#
2-HYDROXY-1,2,3,-PROPANETRICARBOXYLIC ACID	6-10%	NONE SHOWN	221-146-3	3012-65-5
PROPRIETARY NON-/ANIONIC SURFACTANT BLEND	3-5%	N/E	-	-
PROPRIETARY INGREDIENTS, INERT	balance	NONE	-	-

**Section IV – First Aid Measures**General Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Contact with eyes:

Flush with water for at least 10 minutes, lifting upper and lower lids occasionally. See a physician.

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## **Section IV – First Aid Measures (con't)**

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### If swallowed:

Drink two glasses of water. Induce vomiting. See a physician immediately.

### If inhaled:

Move person to fresh air. Give oxygen if necessary. If not breathing, give artificial respiration. Consult a physician immediately.

### Skin contact:

Wash off with plenty of soap and water.

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## **Section V – Fire-fighting Measures**

### Suitable extinguishing media:

Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

### Protective equipment for fire-fighters:

Use self-contained breathing apparatus (SCBA) when necessary

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## **Section VI – Accidental Release Measures**

### In case of a leak or spill:

Use absorbent to pick up major spills. Wash down with large quantities of water. Care should be taken when walking in areas of spills as area can be slippery. Wash down spill area with large quantities of water. Water solution is believed to be biodegradable and can be flushed down sewer in accordance with applicable regulations and advice of local, state, and provincial authorities.

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## **Section VII – Handling and Storage**

### Handling of material:

Avoid contact with eyes, skin, clothing, and other exposed areas of the body. Avoid inhalation of vapor or mist. Use standard measures for fire-fighting purposes. Eye wash should be available in area where product is used. Ensure use of proper personal protective equipment when handling any chemical.

### Storage of material:

Keep material in container, tightly closed, in a dry environment. Do not allow to freeze. Follow all appropriate grounding and bonding procedures during use of any chemical. Follow all appropriate lockout / tagout procedures in all areas. Do not allow access of unauthorized personnel to chemical storage areas. Observe all local, state, and federal regulations. Material may be repackaged in steel, poly, or aluminum containers.

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## **Section VIII – Exposure controls / Personal Protective Equipment**

### Engineering Controls:

In areas where deemed necessary, investigate all engineering controls and techniques in order to reduce risk of exposure to any chemical. Provide necessary ventilation. If necessary, use local exhaust ventilation at sources of air contamination. Consult ACGIH ventilation manual or NFPA Standard 91 for exhaust system designs.

### Face and Eye Protection:

The use of chemical splash / safety goggles is highly recommended, along with accessibility to eye wash stations. If necessary, provide workers with chemical full-face shields. Any long hair should be firmly held behind or on top of the head to avoid exposure.

### Skin Protection:

The use of chemically-resistant clothing and PVC-lined, latex, or Nitrile gloves is highly recommended for use with this product. Consult with glove manufacturers for a list of gloves acceptable for use with any chemical. If necessary, wear full-face shield and rubber aprons with use of chemicals. Wash all clothing that has been exposed to chemicals before reuse.

### Respiratory Protection:

Avoid inhalation of vapor from product. When exposure limits in a given area exceed set values, use NIOSH approved respiratory protection. Consult with respiratory protection equipment manufacturer for types of equipment suitable for each chemical. Respiratory protection must comply with 29 CFR 1910.134. When emergency conditions are presented, evacuate areas affected and use appropriate safety measures for respiratory protection such as, but not limited to, self-contained breathing apparatus, air-line respirator, full-face respirator, or other approved methods for each given chemical.

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## Section IX – Physical and Chemical Properties

Appearance / Odor	clear to tan liquid, surfactant odor
pH (100%)	3.7 ± 0.3
Specific Gravity	1.02 ± 0.10
Vapor Pressure	N/A
Vapor Density	N/A
Melting Point	N/E
Freezing Point	<32°F/0°C
Boiling Point:	>212°F / 100°C
Solubility in Water	complete
Flash Point	N/A
Expansion Rate (butyl acetate = 1)	N/A

## Section X – Stability and Reactivity

Stability	Unstable		
	Stable	X	This chemical is stable under anticipated normal operating conditions

Incompatibility (Materials to Avoid): None known

Hazardous Decomposition or Byproducts: Ammonia may be liberated at extremely high temperatures.

Hazardous Polymerization	May Occur		
	Will Not Occur	X	This chemical will not undergo hazardous polymerization under anticipated normal operating conditions

## Section XI – Toxicological Information

### Acute Toxicity:

No data available

### Carcinogenicity:

No component of this product at levels of greater than 0.1% is identified as a human carcinogen by IARC, ACGIH, NTP, or OSHA.

### Teratogenicity:

No data available

### Specific Target Organ Toxicity – single or repeated exposure (GHS)

No data available

## Section XII – Ecological Information

Not available at this time. This product is believed to be biodegradable, but waste generators should always check with state, local, and provincial authorities before disposal of any chemical.

## Section XIII – Waste Disposal

Always dispose of all chemicals via State, Local, and Federal Regulations.

**Any processing done with the use of this chemical in which any substances are added to this material may make this waste management information inaccurate. Local laws must always be consulted when considering waste disposal.**

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**Section XIV – Transportation Information**

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US Department of Transportation (DOT), ICAO/IATA, IMDG

NOT REGULATED, NON-HAZARDOUS

Harmonization/ Tariff code:

3402905030

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**Section XV – Regulatory Information**

OSHA Hazard Communication Standard

This product contains “Hazardous Chemicals” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (acute) Health Hazard – Yes

Delayed (chronic) Health Hazard – Yes

Fire Hazard – No

Reactive Hazard – No

SARA Title III, section 313

None of the chemicals contained in this product are not subject to regulation under SARA Title III, section 313.

TSCA Section 8(b)

All of the components of this product are listed on the TSCA Inventory

CERCLA Reportable Quantities

N/E

New Jersey, Pennsylvania, and Massachusetts Right to Know Act Listed Components

Citric acid, CAS# 77-92-9

Diammonium hydrogen 2-hydroxypropane-1,2,3-tricarboxylate, CAS# 3012-65-5

Water, CAS# 102-71-6

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**Section XVI: Other Information**

Chem Crest Chemical MSDS are available on via website, <http://www.crest-ultrasonics.com>

MSDS Prepared by: Charles P. Kaczorek, Technology Department Manager

Date of preparation: 19 May 2014

Legend:

N/A – Not Applicable

N/E – Not Established

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