

Western States Chemicals  
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## MATERIAL SAFETY DATA SHEET

### SECTION I. IDENTIFICATION OF PRODUCT

Name: XLP RING BOWL CLEANER

Identity: Acid Bowl Cleaner MSDS Number: 6951 Date: 5/24/2007 Supersedes: 11/18/2004

HEALTH: 3 FIRE: 0 REACTIVITY: 1 PROTECTION: D

### SECTION II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Name CAS Number PEL TLV %

Hydrofluoric Acid 49% 7664-39-3 C3ppm 3ppm <20

Hydrochloric Acid 31.5% 7647-01-0 5 ppm 5 ppm 10

### SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Specific Gravity: Vapor Pressure Melting Point:

212° F 1.040 ± 0.005 (mm Hg.): ND ND

Vapor Density Evaporation Water Solubility: pH @ 77F:

(Air = 1): 1 (H<sub>2</sub>O = 1):1 Complete <1.0

VOCgm/L: 0

Appearance and Odor: Clear colorless liquid, Sassafras odor

### SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (TCC): % LEL: % UEL: Flammable Limits:

None ND ND ND

Extinguishing Media: Water fog, foam, carbon dioxide. Cool containers exposed to flames with water from side.

Special Fire Fighting Procedures: Avoid breathing fumes from fire exposed material. Wear self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion: Extremely corrosive especially when heated. May liberate flammable hydrogen gas on contact with reactive metals

### SECTION V. HEALTH HAZARD DATA

Route(s) of Entry: INHALATION? Yes EYES? Yes SKIN? Yes INGESTION? Yes

(Acute) Health Hazards:

Eyes: Corrosive. Causes eye burns. May cause permanent damage and blindness.

Skin: Corrosive. Causes skin burns. It may not produce an immediate burning sensation upon skin contact, delaying the awareness of worker that contact has occurred.

Ingestion: Can cause severe mouth, throat & stomach burns and can cause systemic toxicity unless medical treatment is promptly initiated.

Inhalation: Harmful to mucous membrane. Irritation of the upper respiratory tract. Onset of symptoms may be delayed for several (Chronic) Health Hazards: None Known

Signs and Symptoms of Exposure:

Eyes: Immediate burning sensation; small quantities can result in vision impairment

Skin: Causes skin burns. It may not produce an immediate burning sensation upon skin contact.

Ingestion: Chemical burn to esophagus and stomach lining.

Inhalation: Can cause irritation to the nose, mouth, throat, and pulmonary edema.

Medical Conditions Generally Aggravated by Exposure: Pre-existing contact site disorders.

Emergency First Aid Procedures:

Eyes: Immediately flush eyes with large amounts of water for about 15 minutes. Hold eyelids apart during the flushing to ensure thorough rinsing. Get medical attention immediately.

Skin: Flush affected area with plenty of water for 15 minutes. Limit washing to 5 minutes if using Zephiran Chloride solution. Use 2.5% Calcium Gluconate on burned area. Get medical help.

Ingestion: DO NOT INDUCE VOMITING. Give two to three glasses of water to dilute. Obtain immediate medical attention.

Inhalation: Remove from source of contamination and move victim to fresh air. Get immediate medical attention.

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## SECTION VI. TOXICITY DATA

Carcinogenicity: NTP? No IARC No OSHA REGULATED? No

MONOGRAPHS?

## SECTION VII. REACTIVITY DATA

Stability: Stable Hazardous Polymerization Will Not Occur

Incompatibility (Materials to Avoid): Avoid contact with metals which may liberate flammable hydrogen gas. Avoid sulfites and sulfides.

Hazardous Decomposition Byproducts: Acid vapors

## SECTION VIII. PRECAUTIONS FOR SAFE HANDLING AND USE

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

Small Spills: Neutralize with soda ash or lime. Do not let run-off enter storm drains, sewers, or body of water.

Large Spills: Same as for small spill. Wear full proper protective clothing & equipment. Collect waste in a properly labeled container.

Disposal: Dispose of in accordance with Federal, State & Local regulations.

Handling and Storage: Store in cool, dry area. Keep container tightly closed and properly labeled.

Other Precautions: Keep out of reach of children. FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY.

## SECTION IX. CONTROL MEASURES

Respiratory Protection: NIOSH approved respirator for HF gas.

Ventilation: Adequate to meet occupational exposure limits.

Local Exhaust: Sufficient to reduce acid mists below permissible TLV levels.

Explosion Mechanical (General): Recommended in packaging, unloading areas, and open processing.

Protective Gloves: Rubber, Acid resistant, Impervious

Eye Protection: Cup type Chemical Goggles. Full Face shield may be used.

Other Protective Clothing or Equipment: Chemical resistant clothing - Long pants, sleeves, apron, boots

Work/Hygienic Practices: The recommendations described in this section are provided as general guidance for minimizing exposure when handling this product. Because use conditions will vary, depending upon customer applications, specific safe handling procedures should be developed by persons knowledgeable of the intended use conditions and equipment.

## SECTION X. DOT INFORMATION

CORROSIVE LIQUID, TOXIC, n.o.s. (Hydrofluoric Acid, Hydrochloric Acid), 8, 6.1, UN2922, PGII

## SECTION XI. MISCELLANEOUS INFORMATION

SARA 313: Hydrofluoric Acid

Notice: All information, recommendations, and suggestions appearing herein concerning this product are based upon data obtained from the manufacturer and/or recognized technical sources; however, manufacturer makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product.

NA - Not Available NE - Not Established ND - Not Determined

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