

**Issue Date** August 2008

**Revision Date** September 2013

**Version** 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** Dyna-Clean™ Acid Cleaner and Presoak

**Other Means of Identification**

**SDS #** 58112/SDS/I01

**UN/ID No** UN1760

**Product Code** 58112

**Recommended Use of the Chemical and Restrictions on Use**

**Recommended Use** Acid Cleaner and Presoak.

**Details of the Supplier of the Safety Data Sheet**

**Supplier Address** Certol International, LLC.  
6120 East 58th Avenue  
Commerce City, Colorado 80022  
[www.Certol.com](http://www.Certol.com)

**Emergency Telephone Number**

**Company Phone Number(s)**  
Phone: 303-799-9401  
Toll-Free: 1-800-843-3343  
Fax: 303-799-9408

**24 Hour Emergency Telephone**

INFOTRAC: 1-800-535-5053 (North America)  
INFOTRAC: 1-352-323-3500 (International)

## 2. HAZARDS IDENTIFICATION

**Classification**

Acute Toxicity - Oral	Category 4
Acute Toxicity - Inhalation (Vapors)	Category 4
Acute Toxicity - Inhalation (Dust/Mists)	Category 4
Skin Corrosion / Irritation	Category 1C
Serious Eye Damage / Eye Irritation	Category 1

**Signal Word** Danger.

**Hazard Statements** Causes severe skin burns and eye damage.  
Harmful if inhaled.  
Harmful if swallowed.

## 2. HAZARDS IDENTIFICATION (continued)

**Appearance** Natural Liquid.

**Physical State** Liquid.

**Odor** Lemon.



### **Precautionary Statements-Prevention**

Do not handle until all safety precautions have been read and understood.  
Wear protective gloves, protective clothing, eye protection and face protection.  
Wash face, hands and any exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Do not breathe dust/fumes/gas/mist/vapors/spray.

### **Precautionary Statements-Response**

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a Poison Control Center or doctor/physician.

**IF SWALLOWED:** Immediately call a Poison Control Center or doctor/physician. Rinse mouth. Do not induce vomiting.

**IF EXPOSED:** Call a Poison Control Center or doctor/physician.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Control Center or doctor/physician.

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a Poison Control Center or doctor/physician.

### **Precautionary Statements - Storage**

Store in a closed container in a cool, dry, well-ventilated place away from incompatible materials.

**Keep out of the reach of children and pets.**

### **Precautionary Statements - Disposal**

Dispose according to all local, state and federal regulations. Waste should not be released into the sewer system.

### **Hazards Not Otherwise Classified (HNOC)**

Not Applicable.

### **Other Information**

Toxic to aquatic life with long lasting effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Phosphoric Acid	7664-38-2	*
Ethylene Glycol Mono-N-Butyl Ether	111-76-2	*
Hydrochloric Acid	7647-01-0	*
Sodium Hydroxide	1310-73-2	*

\*The exact percentage is a trade secret.

### 4. FIRST AID MEASURES

#### First Aid Measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a physician or Poison Control Center immediately.
<b>Eye Contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call physician immediately.
<b>Ingestion</b>	Rinse mouth. Drink large amounts of water. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Call a physician or Poison Control Center immediately.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing. Wash contaminated clothing before reuse. Call a physician immediately.

#### Most Important Symptoms and Effects, both Acute and Delayed

<b>Symptoms</b>	Causes severe skin burns if not washed immediately. Prolonged contact may cause irreversible damage to the eyes. Inhalation may cause coughing, nausea, headache and respiratory irritation. Swallowing may cause severe gastrointestinal irritation or burns with nausea, vomiting and diarrhea.
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#### Indication of any Immediate Medical Attention and Special Treatment Needed

<b>Note to Physicians</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use water, CO<sub>2</sub>, dry chemical or foam for extinction.

#### Unsuitable Extinguishing Media

Not Determined.

#### Specific Hazards Arising from the Chemical

Not Determined.

#### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

#### **Personal Precautions**

Use personal protective equipment as required.

#### **For Emergency Responders**

Restrict access to spill area. Ventilate the area.

#### **Environmental Precautions**

Prevent entry into waterways, sewers, basements or confined areas.  
See Section 12 for additional ecological information.

### Methods and Material for Containment and Cleaning Up

#### **Methods for Containment**

Prevent further leakage or spillage if safe to do so.

#### **Methods for Cleaning Up**

Neutralize with lime or soda ash. Sweep up and shovel into a suitable container for disposal.  
Flush area with large amounts of water.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

#### **Advice on Safe Handling**

Do not handle until all safety precautions have been read and understood.  
Use personal protection recommended in Section 8.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only in well-ventilated areas.  
Do not breathe dust/fumes/gas/mist/vapors/spray.  
Do not get in eyes, on skin or on clothing.

**Keep out of the reach of children and pets.**

### Conditions for Safe Storage, Including any Incompatibilities

#### **Storage Conditions**

Store in a closed container in a cool, dry, well-ventilated place away from incompatible materials.

**Keep out of the reach of children and pets.**

#### **Incompatible Materials**

Strong acids and oxidizers.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid 7664-38-2	STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> (Vacated) STEL: 3 mg/m <sup>3</sup> (Vacated)	TWA :1 mg/m <sup>3</sup> IDLH: 1000 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Ethylene Glycol Mono-N-Butyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> TWA: 25 ppm (Vacated)	TWA: 5 ppm TWA: 24 mg/m <sup>3</sup> IDLH: 700 mg/m <sup>3</sup>
Hydrochloric Acid 7647-01-0	Ceiling: 2 ppm	TWA: 2 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup> (Vacated)	Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup> IDLH: 50 mg/m <sup>3</sup>
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup> (Vacated)	Ceiling: 2 mg/m <sup>3</sup> IDLH: 10 mg/m <sup>3</sup>

### Appropriate Engineering Controls

#### **Engineering Controls**

Apply technical measures to comply with the occupational exposure limits.  
Eyewash stations and showers.

### Individual Protection Measures, such as Personal Protective Equipment

#### **Eye/Face Protection**

Wear goggles and a face protection shield.

#### **Skin and Body Protection**

Chemical resistant, impermeable gloves.

#### **Respiratory Protection**

Use NIOSH/MSHA approved respirator if misting is produced.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practices.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Liquid.
<b>Appearance</b>	Natural Liquid.
<b>Color</b>	Natural.
<b>Odor</b>	Lemon.

<u>Property</u>	<u>Values</u>	<u>Remarks * Method</u>
pH	< 1	68°F (20°C)
Melting Point / Freezing Point	< 32°F / < 0°C	
Boiling Point / Boiling Range	> 183°F / > 84°C	(Approximate)
Flash Point	Not Flammable.	
Evaporation Rate	< 1	(Butyl acetate = 1) (Approximate)
Flammability (Solid/Gas)	N/A-Liquid.	
Flammability Limits In Air	Not Flammable.	
Vapor Pressure	Not Determined.	
Vapor Density	> 1	(Air = 1) (Approximate)
Specific Gravity	1.07	68°F (20°C) (Water = 1)
Water Solubility	Completely Soluble.	
Partition Coefficient	Not Determined.	
Autoignition Temperature	Not Determined.	
Decomposition Temperature	Not Determined.	
Kinematic Viscosity	Not Determined.	
Dynamic Viscosity	Not Determined.	
Explosive Properties	Not Determined.	
Oxidizing Properties	Not Determined.	

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

Not reactive under normal conditions.

### Hazardous Polymerization

Hazardous polymerization will not occur.

### Conditions to Avoid

None under normal processing.

### Incompatible Materials

Strong acids and oxidizers.

### Hazardous Decomposition Products

None known.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Product Information

<b>Inhalation</b>	May cause irritation and burns to the mucous membrane.
<b>Eye Contact</b>	Causes severe eye damage with prolonged contact.
<b>Skin Contact</b>	Causes irritation and burns with prolonged contact.
<b>Ingestion</b>	Harmful if swallowed.

#### Component Information

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Phosphoric Acid 7664-38-2	1530 mg/kg ( Rat )	2730 mg/kg ( Rabbit )	> 850 mg/m <sup>3</sup> ( Rat ) 1 hr.
Ethylene Glycol Mono-N-Butyl Ether 111-76-2	470 mg/kg ( Rat )	2270 mg/kg ( Rat )	2.21 mg/L ( Rat ) 4 hr.
Hydrochloric Acid 7647-01-0	700 mg/kg ( Rat )	5010 mg/kg ( Rabbit )	3124 ppm ( Rat ) 1 hr.
Sodium Hydroxide 1310-73-2	N/A	1350 mg/kg ( Rabbit )	N/A

### Information on Physical, Chemical and Toxicological Effects

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Mono-N-Butyl Ether 111-76-2	A3	Group 3	N/A	N/A
Hydrochloric Acid 7647-01-0	N/A	Group 3	N/A	N/A

#### ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen.

#### IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as Human Carcinogens

### Numerical Measures of Toxicity

Not Determined.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic organisms.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phosphoric Acid 7664-38-2	No Information	Known Toxin	No Information	Known Toxin
Ethylene Glycol Mono-N-Butyl Ether 111-76-2	No Information	Known Toxin	No Information	Known Toxin
Hydrochloric Acid 7647-01-0	No Information	Known Toxin	No Information	No Information
Sodium Hydroxide 1310-73-2	No Information	Known Toxin	No Information	No Information

### **Persistence and Degradability**

Not Determined.

### **Bioaccumulation**

Not Determined.

### **Mobility**

Not Determined.

### **Other Adverse Effects**

Not Determined.

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

#### **Disposal of Wastes**

Dispose according to all local, state and federal regulations.

#### **Disposal of Contaminated Packaging**

Dispose according to all local, state and federal regulations.

Chemical Name	California Hazardous Waste Status
Phosphoric Acid 7664-38-2	Corrosive



## 14. TRANSPORT INFORMATION

### Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Quarts and gallons are shipped as Limited Quantity. Large sizes, 5 gallons or more, are shipped as class 8.

<b><u>DOT</u></b>	UN/ID No	UN1760
	Proper Shipping Name	Corrosive Liquid, n.o.s. (Contains Phosphoric and Hydrochloric Acid)
	Hazard Class	8
	Packing Group	III
<b><u>IATA</u></b>	UN/ID No	UN1760
	Proper Shipping Name	Corrosive Liquid, n.o.s. (Contains Phosphoric and Hydrochloric Acid)
	Hazard Class	8
	Packing Group	III
<b><u>IMDG</u></b>	UN/ID No	UN1760
	Proper Shipping Name	Corrosive Liquid, n.o.s. (Contains Phosphoric and Hydrochloric Acid)
	Hazard Class	8
	Packing Group	III

## 15. REGULATORY INFORMATION

### International Inventories

Not Determined.

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/  
European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**15. REGULATORY INFORMATION (continued)**

**US Federal Regulations**

**SARA 313**

Chemical Name	CAS No	Weight %	SARA - Threshold Values %
Ethylene Glycol Mono-N-Butyl Ether	111-76-2	> 1.0%	1.0%
Hydrochloric Acid	7647-01-0	< 1.0%	1.0%

**CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric Acid 7664-38-2	5000 lb.	N/A	N/A	X
Hydrochloric Acid 7647-01-0	5000 lb.	N/A	N/A	X

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA / SARA RQ	Reportable Quantity (RQ)
Phosphoric Acid 7664-38-2	5000 lb.	N/A	RQ 5000 lb. final RQ RQ 2270 kg final RQ
Hydrochloric Acid 7647-01-0	5000 lb.	5000 lb.	RQ 5000 lb. final RQ RQ 2270 kg final RQ

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric Acid 7664-38-2	X	X	X
Hydrochloric Acid 7647-01-0	X	X	X
Ethylene Glycol Mono-N-Butyl Ether 111-76-2	X	X	X
Sodium Hydroxide 1310-73-2	X	X	X

## 16. OTHER INFORMATION

### NFPA

<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
2	0	0	Not Determined.

### HMIS

<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
Not Determined.	Not Determined.	Not Determined.	Not Determined.

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**Revision Note** New format.

### Disclaimer

The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees.

End of Safety Data Sheet