

# ZZZ Disinfectant

# Material Safety Data Sheet

Preparation Date 19-Nov-2007  
 Revision Number: 0  
 Revision Date

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Description:** ZZZ Disinfectant  
**Item#:** 0005

**Supplier** DeLaval Manufacturing  
 11100 N. Congress Ave.  
 Kansas City, MO 64153

Tel: 816-891-7700, 8am – 5pm M-F

**Emergency Telephone Number** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Corrosive  
 The product causes burns of eyes, skin and mucous membranes

### Potential Health Effects

**Principle Routes of Exposure** Eye contact  
 Skin contact  
 Ingestion

### **Major effects of exposure**

**Eyes** Corrosive to the eyes and may cause severe damage including blindness.  
**Skin** Extremely corrosive and destructive to tissue.  
**Ingestion** Ingestion causes burns of the upper digestive and respiratory tracts.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	OSHA PEL
Phosphoric acid	7664-38-2	10 - 30	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Iodine	7553-56-2	1 - 5	Ceiling: 0.1 ppm Ceiling: 1 mg/m <sup>3</sup>

#### 4. FIRST AID MEASURES

<b>Eye contact</b>	<ul style="list-style-type: none"> <li>• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes</li> <li>• Call a physician immediately</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>• Wash off immediately with plenty of water for at least 15 minutes</li> <li>• Call a physician immediately</li> </ul>
<b>Ingestion</b>	<ul style="list-style-type: none"> <li>• Do not induce vomiting</li> <li>• Drink 1 or 2 glasses of water</li> <li>• Call a physician or Poison Control Centre immediately</li> <li>• Never give anything by mouth to an unconscious person</li> </ul>
<b>Inhalation</b>	<ul style="list-style-type: none"> <li>• Move to fresh air</li> <li>• If not breathing, give artificial respiration</li> <li>• Call a physician or Poison Control Centre immediately</li> </ul>

#### 5. FIRE-FIGHTING MEASURES

<b>Fire Hazard</b>	The product is not flammable.
<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
<b>Specific hazards arising from the chemical</b>	The product causes burns of eyes, skin and mucous membranes.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

Health	Flammability	Instability
3	0	1

**NFPA Special Hazard**                      none

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Avoid contact with skin, eyes and clothing. Use personal protective equipment.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin, eyes and clothing.

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at temperatures between 25°F and 100°F.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL
Phosphoric acid	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>
Iodine	Ceiling: 0.1 ppm	Ceiling: 0.1 ppm Ceiling: 1 mg/m <sup>3</sup>

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Eye/face Protection** Goggles

**Skin Protection** Protective gloves, Long sleeved clothing, Chemical resistant apron

### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark brown
<b>Form</b>	liquid
<b>Specific Gravity</b>	1.14
<b>Density</b>	9.5 lb/gal
<b>Water Solubility</b>	soluble
<b>pH</b>	< 2
<b>Freezing point</b>	20°F

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions.

**Incompatible Materials** bases, organic materials, light metals, bleach

**Possibility of hazardous reactions** Gives off hydrogen by reaction with metals.

## 11. TOXICOLOGICAL INFORMATION

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid	1530 mg/kg ( Rat )	2730 mg/kg ( Rabbit )	
Iodine	14000 mg/Kg		137 ppm

**Chronic Toxicity****Carcinogenicity**

Contains no ingredient listed as a carcinogen

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Phosphoric acid				EC50 = 4.6 mg/L 12 h
Iodine		LC50 (96 h) 0.53 mg/L		LC50 (48 h) 0.16 mg/L

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method**

Dispose of in accordance with local regulations. Should not be released into the environment.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

**UN-No** 3264  
**Proper Shipping Name** Corrosive liquid, acidic, inorganic, N.O.S. (contains Phosphoric Acid)  
**Hazard Class** 8  
**Packing Group** II

## 15. REGULATORY INFORMATION

Component	TSCA	DSL	NDSL	EINEC S	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Phosphoric acid	Present	X	-	231-633-2	-	X	X	KE-27427	X	X

**15. REGULATORY INFORMATION**

Iodine	Present	X	-	231-442-4	-	-	X	97-3-0138	X	X
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**USA****Federal Regulations****TSCA**

Complies

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phosphoric acid	X	X	X		X
Iodine	X	X	X		X

**16. OTHER INFORMATION****Preparation Date**

19-Nov-2007

**Revision Date****Disclaimer**

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