

**Hacco, Inc.**  
**110 Hopkins Drive**  
**Randolph, WI 53956**  
**(920) 326-2461**  
**(Regulatory Office)**  
**(920) 326-5141**  
**(Manufacturing Location)**

**In Case of Emergency, Call:**  
**1-800-498-5743 (U.S. Medical Emergency)**  
**1-651-523-0318 (International, Medical Emergency)**  
**1-800-424-9300 (U.S. CHEMTREC)**  
**1-703-527-3887 (International, CHEMTREC)**  
**(collect calls will be accepted on all lines)**

## 1. PRODUCT IDENTIFICATION

Product Name: **BioSentry<sup>®</sup> AquaPrime<sup>®</sup> Activator**

Signal Word: **DANGER**

Chemical Name: Not Applicable

Chemical Class: Acidic Cleanser

Registration Number: Not Required

**Section(s) Revised: New Issue**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	Percentage By Weight
Hydrochloric Acid (CAS No. 7647-01-0)	7 mg/m <sup>3</sup> (8-hr TWA)	7 mg/m <sup>3</sup> (8-hr TWA)	Not Established	No	20 - 50%
Sulfuric Acid (CAS No. 7664-93-9)	0.1 mg/m <sup>3</sup> (8-hr TWA)	0.1 mg/m <sup>3</sup> (8-hr TWA) 3 mg/m <sup>3</sup> (STEL)	Not Established	No	5 - 20%
Citric Acid (CAS No. 77-92-9)	Not Established	Not Established	Not Established	No	5 - 20%

Ingredients not precisely identified are non-hazardous. Values are not product specifications.

## 3. HAZARDS IDENTIFICATION

### Health Effects

**Eyes:** This product may cause irritation with discomfort, tearing, or blurred vision, with possible corrosion or ulceration.

**Skin:** This product may cause irritation with possible skin corrosion, burns or ulcers.

**Inhalation:** Inhalation of mist or vapor may cause irritation of the nose and throat with sneezing, sore throat, coughing, or runny nose.

**Ingestion:** This product may cause non-specific effects such as headache, nausea and weakness. Higher exposures may cause severe irritation of the throat and digestive tract with stomach pain, nausea, vomiting, diarrhea or internal bleeding. Gross overexposure may be fatal.

### Physical Properties

Appearance: Clear, Light Green Liquid

Odor: Pungent, acrid

### Unusual Fire, Explosion, and Reactivity Hazards

None known.

#### **4. FIRST AID MEASURES**

Have the product container, label, or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment. **FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL 1-800-498-5743 (U.S. Medical Emergencies) or 1-651-523-0318 (International Medical Emergencies, Collect Calls will be accepted).**

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Immediately give 2 glasses of water. Do not give anything by mouth to an unconscious person.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice

**Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Wash contaminated clothing before reuse. Call a poison control center or doctor for treatment advice.

**Inhalation:** Move person to fresh air. If person is not breathing, call **911** or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. If breathing is difficult, give oxygen. Call a poison control center or doctor for further treatment advice.

Notes to Physician

None.

Medical Condition Likely to be Aggravated by Exposure

None known.

#### **5. FIRE FIGHTING MEASURES**

Fire and Explosion

Flash Point (Test Method): Not Applicable

Flammable Limits (% in Air): Lower: % Not Applicable Upper: % Not Applicable

Autoignition Temperature: Not Available

Flammability: Not Flammable

Extinguishing Media: Fog or Water Spray, Foam, Carbon Dioxide, Dry Chemical (appropriate for surrounding material)

Hazardous Decomposition Products:

Will not occur.

Unusual Fire, Explosion, and Reactivity Hazards

None known.

In Case of Fire

Evacuate personnel to a safe area. Wear self-contained breathing apparatus and full protective equipment.

#### **6. ACCIDENTAL RELEASE MEASURES**

In Case of Spill or Leak

Wear appropriate personal protective equipment during cleanup.

**Small Spills:** Prevent material from entering sewers, waterways, or low areas.

**Large Spills:** Absorb into inert material (sawdust, sand, oil dry or other absorbent material) and place in plastic or plastic-lined containers for proper disposal.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge.

## 7. HANDLING AND STORAGE

Store the material in original container, in a secure area out of reach of children and domestic animals. Keep container tightly closed. Avoid inhalation. Avoid contact with eyes, skin, or clothing. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. Wash clothing after use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING, AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

**Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**Eye Contact:** Wear safety glasses. Where splash potential exists, wear chemical splash goggles.

**Skin Contact:** Where there is a potential for skin contact have available and wear as appropriate impervious gloves, apron, pants and jacket.

**Inhalation:** Use only with adequate ventilation. Wear a NIOSH/MSHA-approved pesticide respirator with an organic vapor cartridge and pesticide pre-filter.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear, Light Green Liquid

**Odor:** Pungent, acrid

**Boiling Point:** Not Available

**Specific Gravity:** Not Available

**Bulk Density:** Not Available

**pH:** <1

**Solubility in H<sub>2</sub>O:** 100%

**Vapor Pressure:** Not Available

**Percent Volatile:** Not Available

**Evaporation Rate:** Not Available

**Note:** The physical data presented here are typical values based on material tested, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal use and storage conditions.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** None known.

**Materials to Avoid:** Incompatible with alkalis and chlorinated compounds.

**Hazardous Decomposition Products:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies

<b>Ingestion:</b>	<u>Acute Toxicity</u>	
	Oral (LD <sub>50</sub> Rabbit) :	900mg/kg (37% purity, Hydrochloric Acid)
	Oral (LD <sub>50</sub> Rat) :	2,140mg/kg (95-98% purity, Sulfuric Acid)
	Oral (LD <sub>50</sub> Rat) :	3,000mg/kg (100% purity, Citric Acid)

Dermal:	<u>Acute Dermal Effects</u>	
	Dermal (LD <sub>50</sub> Rabbit) :	Not Available (37% purity, Hydrochloric Acid)
	Dermal (LD <sub>50</sub> Rabbit) :	Not Available (95-98% purity, Sulfuric Acid)
	Dermal (LD <sub>50</sub> Rabbit) :	Not Available (100% purity, Citric Acid)
Inhalation:	<u>Acute Inhalation Effects</u>	
	Inhalation (LC <sub>50</sub> Rat) :	3,124mg/kg (37% purity, Hydrochloric Acid)
	Inhalation (LC <sub>50</sub> Rat, 4 hr) :	2,140mg/kg (95-98% purity, Sulfuric Acid)
	Inhalation (LC <sub>50</sub> Rat, 4 hr) :	Not Available (100% purity, Citric Acid)

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

**12. ECOLOGICAL INFORMATION**

Do not discharge effluent containing this product directly to water. Do not contaminate water when disposing of equipment wash water.

Eco-Acute Toxicity

Not Available

**13. DISPOSAL CONSIDERATIONS**

Container Disposal

*Plastic Containers:* Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*For containers 1 gallon or less:* Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**14. TRANSPORT INFORMATION**

DOT Classification (for container sizes 20 – 200 liter)

Proper Shipping Name:	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric, Sulfuric, Citric Acid)
Hazard Class:	8
UN Number:	3264
Packing Group:	III
Label:	Corrosive
Special Instructions:	Not Applicable

DOT Classification (for container sizes 4x1 gallon)

Proper Shipping Name:	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric, Sulfuric, Citric Acid)
Hazard Class:	8
UN Number:	3264
Packing Group:	III
Label:	Corrosive
Special Instructions:	Not Applicable

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name:	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric, Sulfuric, Citric Acid)
Hazard Class:	8
UN Number:	3264
Packing Group:	III
Label:	Corrosive
Special Instructions:	Not Applicable

IMDG Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric, Sulfuric, Citric Acid)  
Hazard Class: 8  
UN Number: 3264  
Packing Group: III  
Label: Corrosive  
Special Instructions: Not Applicable

IATA Classification (for container sizes 20 – 200 liter & 4x1 gallon)

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric, Sulfuric, Citric Acid)  
Hazard Class: 8  
UN Number: 3264  
Packing Group: III  
Label: Corrosive  
Special Instructions: Not Applicable

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric, Sulfuric, Citric Acid)  
Hazard Class: 8  
UN Number: 3264  
Packing Group: III  
Label: Corrosive  
Special Instructions: Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Hydrochloric, Sulfuric, Citric Acid)  
Hazard Class: 8  
UN Number: 3264  
Packing Group: III  
Label: Corrosive  
Special Instructions: Not Applicable

**15. REGULATORY INFORMATION**

EPA SARA Title III Hazard Classification

Immediate Y Fire N Sudden Release of Pressure N  
Delayed N Reactive N

Section 313 Toxic Chemicals

Not Listed

California Proposition 65

Not Listed

CERCLA/SARA 302 Reportable Quantity (RQ)

Not Listed

RCRA Hazardous Waste Classification (40 CFR 261)

Not Listed

**16. OTHER INFORMATION**

NFPA Hazard Ratings

Health: 1  
Flammability: 0  
Instability: 1

HMIS Hazard Ratings

Health: 1  
Flammability: 0  
Reactivity: 1  
PPE: H

0 - Minimal  
1 - Slight  
2 - Moderate  
3 - Serious  
4 - Extreme

For Non-Emergency Questions About This Product Call:

1-800-621-8829

Neogen Corporation

Lexington, KY

[www.Hacco.com](http://www.Hacco.com)

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