

**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> DSC 1000<sup>®</sup>**  
 EPA Signal Word: **DANGER**  
 Chemical Name: Quaternary ammonium compound  
 Chemical Class: Cleanser  
 Registration Number:

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

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	Concentration %
Propan-2-ol (CAS No. 67-63-0)	400 ppm, 980 mg/m <sup>3</sup> (8-hr TWA)	200 ppm, 491 mg/m <sup>3</sup> (8-hr TWA) 400 ppm, 983 mg/m <sup>3</sup> (STEL)	500 ppm (15-min Ref. Period) (OES)	No	5 – 10%
Quaternary ammonium compounds, benzyl-C <sub>10</sub> - <sub>16</sub> -alkyldimethyl, chlorides (CAS No. 68989-00-4)	Not Established	Not Established	Not Established	No	8 – 20%

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

**3. HAZARDS IDENTIFICATION**

Health Effects

**Eyes:** This product will cause strong irritation, and possible eye damage.  
**Skin:** This product may cause irritation and / or defatting of the skin with itching, redness or rash.  
**Inhalation:** This product is not considered a risk at normal temperatures. Higher temperatures may result in possible drowsiness, nausea and headaches. Inhalation of the diluted product spray mists may cause irritation to the nose, throat and respiratory tract.  
**Ingestion:** This product will cause strong irritation to the mouth, throat, digestive tract and stomach. Harmful effects may be expected through absorption.

Physical Properties

Appearance: Clear, blue liquid  
 Odor: Faint alcoholic / lemon

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. Drink water or milk. 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 immediately for treatment advice.
- Skin Contact:** Take off contaminated clothing immediately. 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. Call a poison control center or doctor for 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):** 46° C (Does not support combustion)
- Flammable Limits (% in Air):** Lower: % Not Applicable Upper: % Not Applicable
- Autoignition Temperature:** Not Available
- Flammability:** Not Flammable
- Extinguishing Media:** Fog or Water Spray, Foam, Dry Chemical, Carbon Dioxide

Hazardous Decomposition Products:

None under normal usage. Carbon and nitrogen oxides, NH<sub>3</sub> during combustion.

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. Avoid naked flames.

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

In Case of Spill or Leak

Wear appropriate personal protective equipment during cleanup. Keep people away from and upwind of spill/leak.

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

**Large Spills:** Absorb into inert material (sawdust, sand, silica gel, acid binder, or universal binder) and place in plastic or plastic-lined containers for proper disposal. Flush away traces with water, ensuring washings do not enter surface water drains.

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. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

## 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 and in a dry, cool place out of direct sunlight. Protect from contamination. 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.

## 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 coverall chemical splash goggles. Additionally, wear a face shield where the possibility exists for face contact due to splashing or spraying material.
- Skin Contact: Where there is a potential for skin contact have available and wear as appropriate rubber gloves and PVC or cotton coveralls.
- 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, blue liquid
- Odor: Faint alcoholic/lemon
- Boiling Point: Not Available
- Specific Gravity: Approximately 0.995 g/ml (water=1)
- Bulk Density: 8.22 – 8.30 lbs/gal
- pH: Approximately 7.5 (1.0 % solution at ambient temperature)
- Solubility in H<sub>2</sub>O: Miscible
- Vapor Pressure: Not Established
- 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: Avoid high temperatures and open flames. Do not allow to freeze.
- Materials to Avoid: Incompatible with soaps, anionic detergents and strong oxidizing agents.
- Hazardous Decomposition Products: None under normal usage. Carbon and nitrogen oxides, NH<sub>3</sub> during combustion.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies

- Ingestion: Acute Toxicity  
Not Applicable
- Dermal: Acute Dermal Effects  
Not Applicable
- Inhalation: Acute Inhalation Effects  
Not Applicable

Eye Contact: This product will cause strong irritation, and possible eye damage.  
Skin Contact: This product may cause irritation to the skin and / or defatting of the skin with itching, redness or rash. Prolonged or repeated contact may be corrosive to the skin.

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**

This product is harmful to aquatic organisms. Do not discharge effluent containing this product directly to water. Do not contaminate water when disposing of equipment wash water.

**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: Deodorant or Disinfectant, NOI (MNFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

DOT Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (MNFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Deodorant or Disinfectant, NOI (MNFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

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Proper Shipping Name: Deodorant or Disinfectant, NOI (MNFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

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

Proper Shipping Name: Deodorant or Disinfectant, NOI (MNFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
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Proper Shipping Name: Deodorant or Disinfectant, NOI (MNFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Deodorant or Disinfectant, NOI (MNFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
Special Instructions: Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (MNFC 57100, SUB 3; CLASS: 60)  
Hazard Class: Not Applicable  
UN Number: Not Applicable  
Packing Group: Not Applicable  
Label: Not Applicable  
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: 1  
Instability: 0

HMIS Hazard Ratings

Health: 1  
Flammability: 1  
Reactivity: 0

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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