



## MATERIAL SAFETY DATA SHEET

**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® Chlorhexidine Solution, 2%**  
EPA Signal Word: Not Applicable  
Chemical Name: Chlorhexidine Gluconate  
Chemical Class: Topical Cleaning Solution  
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
Chlorhexidine Gluconate (CAS No. 18472-51-0)	Not Established	Not Established	Not Established	No	2.0%

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

### 3. HAZARDS IDENTIFICATION

#### Health Effects

Eyes: This product is not a significant eye hazard.  
Skin: This product is not a skin hazard.  
Inhalation: This product is not a significant inhalation hazard.  
Ingestion: This product is not a significant ingestion hazard.

#### Physical Properties

Appearance: Clear, blue liquid  
Odor: Pleasant soap-type odor

#### Unusual Fire, Explosion, and Reactivity Hazards

Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride, and oxides of carbon and nitrogen.

#### **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:** Swallowing less than one ounce will not cause significant harm. For larger amounts, have the person sip 2 to 4 glasses of water or milk if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. 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. If symptoms persist, 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. If symptoms persist, 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. If symptoms persist, 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 Available  |                        |
| Flammable Limits (% in Air): | Lower: % Not Available   | Upper: % Not Available |
| Autoignition Temperature:    | Not Available  |                        |
| Flammability:                | Not Flammable  |                        |
| Extinguishing Media:         | Fog or Water Spray, Foam, Carbon Dioxide, Class A, BC, or ABC Fire Extinguishers |                        |

Hazardous Decomposition Products:

Nitrous Oxides and Ammoniacal Vapors

Unusual Fire, Explosion, and Reactivity Hazards

Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride, and oxides of carbon and nitrogen.

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. Isolate spill or leak area immediately. Ventilate closed spaces before entering. Do not touch or walk through spilled material.

- Small Spills:** Flush to sewer with large amounts of water.
- Large Spills:** Rinse area with water. Under normal use this product is suitable for entry into any ordinary sanitary sewer system.

## 7. HANDLING AND STORAGE

Store the material in original container, in a secure, dry, well-ventilated area out of reach of children and domestic animals. Avoid excessive heat. 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: Where splash potential exists, wear chemical splash goggles.

Skin Contact: Gloves are not required for normal handling. Where heavy contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves.

Inhalation: Use only with adequate ventilation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, blue liquid
Odor:	Pleasant soap-type odor
Boiling Point:	215° F
Specific Gravity:	1.01 g/ml (water=1)
Bulk Density:	1.009 (water=1)
pH:	Not Available
Solubility in H <sub>2</sub> O:	Soluble
Vapor Pressure:	Not Established
Percent Volatile:	Not Established
Evaporation Rate:	Not Established

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:	Excessive heat will release formaldehyde vapors and/or nitrogen oxides.
Materials to Avoid:	Incompatible with strong oxidizing agents, strong alkalis, and strong mineral acids.
Hazardous Decomposition Products:	Nitrous Oxides and Ammoniacal Vapors.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies

Ingestion:	<u>Acute Toxicity</u> Not Available
Dermal:	<u>Acute Dermal Effects</u> Not Available
Inhalation:	<u>Acute Inhalation Effects</u> Not Available
Other:	
Eye Contact:	May cause eye irritation.
Skin Contact:	May cause skin irritation.

### 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

### Ecotoxicity

Not Ecotoxic

### Environmental Fate

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.

Do not contaminate water, food or feed by storage or disposal.

## 14. TRANSPORT INFORMATION

### DOT Classification (for container sizes 20 – 200 liter)

Proper Shipping Name:	Deodorant or Disinfectant, NOI (NMFC 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 (NMFC 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 (NMFC 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 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (NMFC 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 (NMFC 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 (NMFC 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 (NMFC 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	<u>N</u>	Fire	<u>N</u>	Sudden Release of Pressure	<u>N</u>
Delayed	<u>N</u>	Reactive	<u>N</u>		

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: 0

HMIS Hazard Ratings

Health: 1  
Flammability: 0  
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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Replaces: Not Applicable

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