



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® 904 Disinfectant**
 EPA Signal Word: **DANGER**
 Chemical Name: Not Applicable
 Chemical Class: Disinfectant
 EPA Registration Number: 61282-55

Section(s) Revised: New Issue

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	Percentage By Weight
Didecyl dimethyl ammonium chloride (CAS No. 7173-51-5) Alkyl (C ₁₂ -61%, C ₁₄ -23%, C ₁₆ -11%, C ₁₈ -2.5%, C ₈ & C ₁₀ -2.5%)	Not Established	Not Established	Not Established	No	9.2 %
dimethyl benzyl ammonium chloride (CAS No.68391-01-5) Alkyl (C ₁₂ -40%, C ₁₄ -50%, C ₁₆ -10)	Not Established	Not Established	Not Established	No	9.2 %
dimethyl benzyl ammonium chloride (CAS No. 68424-85-1)	Not Established	Not Established	Not Established	No	4.6 %
**Bis-n-tributylin oxide (CAS No. 56-35-9)	2 mg/m ³ (8-hr TWA) – metal, inorganic cmpds (except oxides) as Sn 0.1 mg/ m ³ (8-hr TWA) – organic cmpds as Sn	2 mg/m ³ (8-hr TWA) – metal, inorganic cmpds (except SnH4) as Sn 0.1 mg/ m ³ (8-hr TWA) 0.2 mg/m ³ (STEL) – organic cmpds as Sn, skin, A4	Not Established	No	1.0 %
Ethyl Alcohol (CAS No. 64-17-5)	1,000 ppm, 1,900 mg/m ³ (8-hr TWA)	1,000 ppm, 1,880 mg/m ³ (8-hr TWA), A4	Not Established	No	

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

** Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

3. HAZARDS IDENTIFICATION

Health Effects

Eyes: May cause severe eye irritation with tearing, pain, swelling, or blurred vision.
 Skin: May cause skin irritation with itching, redness, swelling or rash.

- Inhalation:** Vapors or mists may cause nose and throat irritation. Prolonged inhalation may produce drowsiness, weakness and inability to concentrate.
- Ingestion:** Ingestion may cause burning pain in the mouth, throat and abdomen and swelling of the larynx. Gross overexposure via ingestion may cause central nervous system depression with dizziness, headache, confusion, and incoordination, skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and / or convulsions.

Physical Properties

- Appearance:** Colorless like straw liquid.
Odor: Musty.

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. Call a poison control center or doctor for treatment advice. Wash contaminated clothing before reuse.
- 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

Probable mucosal damage may contraindicate the use of gastric lavage.

Medical Condition Likely to be Aggravated by Exposure

None known.

5. FIRE FIGHTING MEASURES

Fire and Explosion

- Flash Point (Test Method):** 142° F (61° C)
- Flammable Limits (% in Air):** Lower: % Not Applicable Upper: % Not Applicable
- Autoignition Temperature:** Not Available
- Flammability:** Flammable
- Extinguishing Media:** Fog or Water Spray, Foam, Carbon Dioxide, Dry Chemical (appropriate for surrounding material)

Hazardous Decomposition Products:

Hazardous gases or vapors can be released, including ammonia, carbon dioxide, and carbon monoxide.

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 noncombustible absorbent 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. 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. Do not get in eyes, on skin or on clothing. Avoid inhalation. Keep container tightly closed. Keep away from heat, sparks and flames. 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:	Colorless like straw liquid
Odor:	Musty
Boiling Point:	>100° C
Specific Gravity:	1.02 g/ml (water=1)
Bulk Density:	8.43 – 8.68 lbs/gal
pH:	8-10
Solubility in H ₂ O:	Soluble
Vapor Pressure:	Not Established
Percent Volatile:	>60% (by volume)
Evaporation Rate:	1 (water=1.0)

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: Keep away from heat, sparks and flames.
Materials to Avoid: Incompatible with soaps, anionic detergents, chlorine and other oxidizers.
Hazardous Decomposition Products: Hazardous gases or vapors can be released, including ammonia, carbon dioxide, and carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion: Acute Toxicity
Not Available
Dermal: Acute Dermal Effects
Not Available
Inhalation: Acute Inhalation Effects
Not Available

Other:

Eye Contact: May cause severe eye irritation. Repeated / prolonged exposures may cause eye damage.
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

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

Marine Pollutant: Tributyltin Oxide

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 onsite or at an approved waste disposal facility.

14. TRANSPORT INFORMATION

DOT Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tributyltin Oxide)
Hazard Class: 9
UN Number: 3082
Packing Group: III
Label: Class 9
Special Instructions: Not Applicable

DOT Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tributyltin Oxide)
Hazard Class: 9
UN Number: 3082
Packing Group: III
Label: Class 9
Special Instructions: Not Applicable

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tributyltin Oxide)
 Hazard Class: 9
 UN Number: 3082
 Packing Group: III
 Label: Class 9
 Special Instructions: Not Applicable

IMDG Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tributyltin Oxide)
 Hazard Class: 9
 UN Number: 3082
 Packing Group: III
 Label: Class 9
 Special Instructions: Not Applicable

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

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tributyltin Oxide)
 Hazard Class: 9
 UN Number: 3082
 Packing Group: III
 Label: Class 9
 Special Instructions: Not Applicable

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tributyltin Oxide)
 Hazard Class: 9
 UN Number: 3082
 Packing Group: III
 Label: Class 9
 Special Instructions: Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tributyltin Oxide)
 Hazard Class: 9
 UN Number: 3082
 Packing Group: III
 Label: Class 9
 Special Instructions: Not Applicable

15. REGULATORY INFORMATION

EPA SARA Title III Hazard Classification

Immediate	<u>Y</u>	Fire	<u>Y</u>	Sudden Release of Pressure	<u>N</u>
Delayed	<u>N</u>	Reactive	<u>N</u>		

Section 313 Toxic Chemicals

Bis-n-tributyltin oxide (CAS No. 56-35-9)

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: 2
Flammability: 2
Instability: 0

HMIS Hazard Ratings

Health: 2
Flammability: 2
Reactivity: 0
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

Original Issue Date: September 1st, 2008
Revision Date: Not Applicable
Replaces: Not Applicable

BioSentry[®] is a Registered Trademark of Neogen Corporation.

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN (HEREINAFTER "INFORMATION") ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE CORRECT, HACCO, INC., THE MANUFACTURER OR THE SELLER MAKES NO REPRESENTATIONS AS TO THE COMPLETENESS OR ACCURACY THEREOF. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING IT WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR PURPOSES PRIOR TO USE.

THE PRODUCT COVERED BY THIS INFORMATION SHEET IS FURNISHED "AS IS" BY HACCO, INC., THE MANUFACTURER OR THE SELLER, AND IS SUBJECT ONLY TO THE WARRANTIES, IF ANY, THAT APPEAR ON THE PRODUCT'S LABEL OR ARE OTHERWISE EXPRESSLY PROVIDED HEREIN.

EXCEPT AS EXPRESSLY PROVIDED ON THE PRODUCT'S LABEL OR OTHERWISE PROVIDED HEREIN, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, ARE MADE BY HACCO, INC., THE MANUFACTURER OR THE SELLER WITH REGARD TO THE PRODUCT OR USE OF THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE.

EXCEPT AS EXPRESSLY STATED HEREIN, HACCO, INC., THE MANUFACTURER OR THE SELLER MAKES NO WARRANTY OF RESULTS TO BE OBTAINED BY USE OF THE PRODUCT COVERED BY THIS INFORMATION. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND THE TOTAL LIABILITY OF HACCO, INC., THE MANUFACTURER OR THE SELLER, SHALL BE LIMITED TO DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT. NO AGENT OR EMPLOYEE OF HACCO, INC., THE MANUFACTURER OR THE SELLER IS AUTHORIZED TO AMEND THE TERMS OF THIS WARRANTY DISCLAIMER OR THE PRODUCT'S LABEL OR TO MAKE A REPRESENTATION OR RECOMMENDATION DIFFERENT FROM OR INCONSISTENT WITH THE LABEL OF THIS PRODUCT.

IN NO EVENT SHALL HACCO, INC., THE MANUFACTURER OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES AND THE BUYER AND USER WAIVE ANY RIGHT THEY MAY HAVE TO SUCH DAMAGES.