

**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> X-185<sup>™</sup>**  
EPA Signal Word: **DANGER**  
Chemical Name: Cresylic 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	Percentage By Weight
**Cresylic Acid (CAS No. 1319-77-3)	5 ppm, 22 mg/m <sup>3</sup> (8-hr TWA), Skin	5 ppm, 22 mg/m <sup>3</sup> (8-hr TWA), Skin	Not Established	No	22.50 %
Isopropanol (CAS No. 67-63-0)	400 ppm, 980 mg/m <sup>3</sup> (8-hr TWA)	200 ppm (8-hr TWA), A4 400 ppm (STEL)	Not Established	No	14.10 %
Sodium Hydroxide (CAS No. 1310-73-2)	2 mg/m <sup>3</sup> (8-hr TWA)	Ceiling 2 mg/m <sup>3</sup>	Not Established	No	
Triethanolamine (CAS No. 102-71-6)	Not Established	5 mg/m <sup>3</sup> (8-hr TWA)	Not Established	No	13.10 %
**o-Benzyl-p-Chlorophenol (CAS No. 120-32-1)	Not Established	Not Established	Not Established	IARC-2B	3.35 %
**o-Phenylphenol (CAS No. 90-43-7)	Not Established	Not Established	Not Established	No	4.35 %
**Bis-n-tributyltin oxide (CAS No. 56-35-9)	2 mg/m <sup>3</sup> (8-hr TWA) – metal, inorganic cmpds (except oxides) as Sn 0.1 mg/m <sup>3</sup> (8-hr TWA) – organic cmpds as Sn	2 mg/m <sup>3</sup> (8-hr TWA) – metal, inorganic cmpds (except SnH4) as Sn 0.1 mg/m <sup>3</sup> (8-hr TWA) 0.2 mg/m <sup>3</sup> (STEL) – organic cmpds as Sn, skin, 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 discomfort, tearing, or blurred vision. Prolonged contact may cause eye damage.

Skin: This product may cause severe irritation and/or defatting of the skin with discomfort, itching, redness or rash. There are inconclusive or unverified reports of human sensitization.

- Inhalation:** Vapors or mists may cause irritation of the upper respiratory passages with sneezing, headache, sore throat or runny nose.
- Ingestion:** Ingestion may cause nonspecific discomfort, such as nausea, vomiting, diarrhea, convulsions, or weakness; temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Gross overexposure may be fatal.
- Prolonged exposures may lead to abnormal kidney function with reduced urine volume, abnormal laboratory tests, or edema; abnormal liver function with nausea or vomiting, reduced appetite, or abdominal pain. Individuals with preexisting diseases of the liver, kidneys, or skin may have increased susceptibility to the toxicity of excessive exposures.

Physical Properties

Appearance: Light, amber liquid  
Odor: Cresylic

Unusual Fire, Explosion, and Reactivity Hazards

Combustible Liquid.

#### 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

Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances. Activated charcoal may be given but should be used with caution since it may induce vomiting.

Medical Condition Likely to be Aggravated by Exposure

Prolonged exposures may lead to abnormal kidney function with reduced urine volume, abnormal laboratory tests, or edema; abnormal liver function with nausea or vomiting, reduced appetite, or abdominal pain. Individuals with preexisting diseases of the liver, kidneys, or skin may have increased susceptibility to the toxicity of excessive exposures.

#### 5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): 82° F (28° C)  
Flammable Limits (% in Air): Lower: % Not Applicable Upper: % Not Applicable  
Autoignition Temperature: Not Available  
Flammability: Combustible  
Extinguishing Media: Fog or Water Spray, Foam, Carbon Dioxide, Dry Chemical

Hazardous Decomposition Products:

Will not occur.

Unusual Fire, Explosion, and Reactivity Hazards

Combustible Liquid.

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:** Dike spill. Absorb into noncombustible absorbent material (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. Keep container tightly closed. Avoid inhalation. Avoid contact with eyes, skin or clothing. Keep away from heat or open flame. 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:	Light, amber liquid
Odor:	Cresylic
Boiling Point:	>100° C
Specific Gravity:	1.04 g/ml (water=1)
Bulk Density:	8.68 – 8.76 lbs/gal
pH:	12-13
Solubility in H <sub>2</sub> O:	Soluble
Vapor Pressure:	Not Established
Percent Volatile:	>50% (by volume)
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:	Heat or open flame.
Materials to Avoid:	Incompatible or can react with acids and oxidizers.
Hazardous Decomposition Products:	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies

Ingestion:	<u>Acute Toxicity</u> Not Applicable
Dermal:	<u>Acute Dermal Effects</u> Not Applicable
Inhalation:	<u>Acute Inhalation Effects</u> Not Applicable
Eye Contact:	May cause severe eye irritation. Repeated / prolonged exposures may cause eye damage.
Skin Contact:	May cause skin irritation.

### Carcinogenicity

The component o-Benzyl-p-Chlorophenol is listed as a known carcinogen by IARC (2B).

## 12. ECOLOGICAL INFORMATION

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: Flammable Liquid, Corrosive, N.O.S. (Isopropanol; Cresols (mixed isomers))  
Hazard Class: 3  
UN Number: 2924  
Packing Group: III  
Label: Flammable Liquid, Corrosive  
Special Instructions: Not Applicable

DOT Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S. (Isopropanol; Cresols (mixed isomers))  
Hazard Class: ORM-D, 3  
UN Number: 2924  
Packing Group: III  
Label: Flammable Liquid, Corrosive  
Special Instructions: Not Applicable

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S. (Isopropanol; Cresols (mixed isomers))  
Hazard Class: 3  
UN Number: 2924  
Packing Group: III  
Label: Flammable Liquid, Corrosive  
Special Instructions: Not Applicable

IMDG Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S. (Isopropanol; Cresols (mixed isomers))  
Hazard Class: ORM-D, 3  
UN Number: 2924  
Packing Group: III  
Label: Flammable Liquid, Corrosive  
Special Instructions: Not Applicable

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

Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S. (Isopropanol; Cresols (mixed isomers))  
Hazard Class: 3  
UN Number: 2924  
Packing Group: III  
Label: Flammable Liquid, Corrosive  
Special Instructions: Not Applicable

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

Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S. (Isopropanol; Cresols (mixed isomers))  
Hazard Class: ORM-D, 3  
UN Number: 2924  
Packing Group: III  
Label: Flammable Liquid, Corrosive  
Special Instructions: Not Applicable

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S. (Isopropanol; Cresols (mixed isomers))  
Hazard Class: 3  
UN Number: 2924  
Packing Group: III  
Label: Flammable Liquid, Corrosive  
Special Instructions: Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Flammable Liquid, Corrosive, N.O.S. (Isopropanol; Cresols (mixed isomers))  
Hazard Class: ORM-D, 3  
UN Number: 2924  
Packing Group: III  
Label: Flammable Liquid, Corrosive  
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

Cresylic Acid	(CAS No. 1319-77-3)
o-Benzyl-p-Chlorophenol	(CAS No. 120-32-1)
o-Phenylphenol	(CAS No. 90-43-7)
Bis-n-tributyltin oxide	(CAS No. 56-35-9)

California Proposition 65

This material contains the following component(s) which are known to the State of California to cause cancer:  
o-Phenylphenol

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

Original Issue Date: April 2<sup>nd</sup>, 2009  
Revision Date: Not Applicable  
Replaces: Not Applicable

BioSentry<sup>®</sup> is a Registered Trademark of Neogen Corporation.  
X-185<sup>™</sup> is a 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.