



MATERIAL SAFETY DATA SHEET

Hacco, Inc.
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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® X-185™**
 EPA Signal Word: **DANGER**
 Chemical Name: **Cresylic Compound**
 Chemical Class: **Cleanser**
 Registration Number:

Section(s) Revised: Regulatory Review

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 ³ (8-hr TWA), Skin | 5 ppm, 22 mg/m ³ (8-hr TWA), Skin | Not Established | No | 22.50 % |
| Isopropanol (CAS No. 67-63-0) | 400 ppm, 980 mg/m ³ (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 ³ (8-hr TWA) | Ceiling 2 mg/m ³ | Not Established | No | |
| Triethanolamine (CAS No. 102-71-6) | Not Established | 5 mg/m ³ (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 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 | |

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: | 11-12.1 |
| Solubility in H ₂ 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

Original Issue Date: February 10th, 2009
Revision Date: April 1st, 2013
Replaces: February 10th, 2009

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