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® Longlife™ 250S Disinfectant**

EPA Signal Word: **DANGER**

Chemical Name: Cresol Compound

Chemical Class: Disinfectant

Registration Number:

Section(s) Revised: New Issue

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	Concentration %
Tar Acids, polyalkylphenol fraction (CAS No. 84989-05-9)	Not Established	Not Established	Not Established	No	6 – 15 %
Xylenol (CAS No. 1300-71-6)	Not Established	Not Established	Not Established	No	4 – 12 %
4-Ethylphenol (CAS No. 123-07-9)	Not Established	Not Established	Not Established	No	0 – 2.5 %
3-Ethylphenol (CAS No. 620-17-7)	Not Established	Not Established	Not Established	No	0 – 2.5%
2-Ethylphenol (CAS No. 90-00-6)	Not Established	Not Established	Not Established	No	0 – 2.5%
Cresol (mixed isomers) (CAS No. 1319-77-3)	5 ppm, 22 mg/m^3 (8-hr TWA)	5 ppm, 22 mg/m^3 (8-hr TWA)	5 ppm, 22 mg/m^3 (8-hr TWA) (EH40 OES) 5 ppm, 22 mg/m^3 (8-hr TWA) (EU ELV) Skin Designation: Can be absorbed through the skin. (EH40 OES)	No	0 – 1 %
Phenol (CAS No. 108-95-2)	5 ppm, 19 mg/m^3 (8-hr TWA)	5 ppm, 19 mg/m^3 (8-hr TWA)	2 ppm, Skin Designation: Can be absorbed through the skin. (EH40 MEL) 2 ppm, 7.8 mg/m^3 (EU ELV)	No	<0.2 %
Benzenesulfonic Acid, mono-C_{10}-$_{14}$-alkyl derivs. (CAS No. 85117-49-3)	Not Established	Not Established	Not Established	No	30 – 36 %
Lactic Acid (CAS No. 50-21-5)	Not Established	Not Established	Not Established	No	15 – 20 %
3,5-Xylenol (CAS No. 108-68-9)	Not Established	Not Established	Not Established	No	<1.9 %
4-Chloro-3,5-dimethylphenol (CAS No. 88-04-0)	Not Established	Not Established	Not Established	No	0.5 – 3 %
Biphenyl-2-ol (CAS No. 90-43-7)	Not Established	Not Established	Not Established	No	2 – 4 %

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

3. HAZARDS IDENTIFICATION

Health Effects

Eyes: This product is toxic and may cause eye damage or corrosion. Danger of serious damage by prolonged exposure.

Skin: This product is toxic and will cause burns, damage or corrosion. Danger of serious damage by prolonged exposure.

Inhalation: This product is toxic if inhaled and mat cause headache, nausea or burn. Danger of serious damage to health by prolonged exposure.

Ingestion: This product is toxic if swallowed and may cause headache, nausea or burn. May cause difficulty breathing. Danger of serious damage to health by excessive exposure.

Physical Properties

Appearance: Clear, brown liquid
Odor: Phenolic

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. Drink plenty 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 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. If breathing is difficult, give oxygen. 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):	Not Available	
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 (appropriate for surrounding material)	

Hazardous Decomposition Products:
Hazardous gases / vapors produced are sulfur dioxide, carbon monoxide, carbon dioxide.

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. Do not allow run-off from fire fighting to enter drains or water courses.

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.

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 and away from direct sources of heat. Avoid dust formation in confined spaces. 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 chemical splash goggles and a face shield.

Skin Contact: Wear impervious (rubber) gloves and a chemical-resistant apron and boots.

Inhalation: Use only in area with appropriate exhaust ventilation. Wear a NIOSH/MSHA-approved pesticide respirator with an organic vapor cartridge and pesticide pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, brown liquid
Odor:	Phenolic
Boiling Point:	Not Available
Specific Gravity:	1.115 – 1.125 g/mL
Bulk Density:	9.30 – 9.39 lbs/gal
pH:	2.1
Solubility in H_20:	Emulsifiable
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. STABILTY AND REACTIVITY

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Not known.
Conditions to Avoid:	Avoid direct sources of heat and exposure to sunlight.
Materials to Avoid:	Incompatible with strong bases and oxidizing agents.
Hazardous Decomposition Products:	Hazardous gases / vapors produced are sulfur dioxide, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies

Ingestion:	Acute Toxicity	
	Oral (LD_{50} Rat) :	1,950 mg/kg
	Oral (LD_{50} Rat) :	1,454 mg/kg (Cresol, mixed isomers)
	Oral (LD_{50} Rat) :	317 mg/kg (Phenol)
Dermal:	Acute Dermal Effects	
	Dermal (LD_{50} Rat) :	>2,000 mg/kg (finished product)
	Dermal (LD_{50} Rat) :	>242 mg/kg (Cresol, mixed isomers)
	Dermal (LD_{50} Rat) :	>850 mg/kg (Phenol)
Inhalation:	Acute Inhalation Effects	
	Inhalation (LC_{50} Rat, 4 hr.) :	0.316 mg/L (Phenol)
Eye Contact:	Risk of serious damage to eyes.	
Skin Contact:	Severe skin irritation.	
Skin Sensitization:	Not a skin sensitizer (corrosive).	
Additional Information:	Excessive exposures may affect human health as follows:	
Inhalation:	Causes burns, damage, and deficiency in ability to work properly.	
Skin Contact:	Causes burns, damage, and is corrosive.	
Eye Contact:	Causes damage and is corrosive.	
Ingestion:	Causes damage and is corrosive.	

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. This product is toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

Eco-Acute Toxicity

Cresols (mixed isomers):	Zebra Fish, 96-hr LC_{50}:	9 mg/L
Lactic Acid:	Fathead Minnows, 96-hr $LC_{50:}$	0.027 mg/L

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:	Corrosive Liquid, Toxic, Inorganic, N.O.S. (Tar Acids, Polyalkylphenol Fraction)
Hazard Class:	8
UN Number:	2922
Packing Group:	II
Label:	8, 6.1, Corrosive
Special Instructions:	Not Applicable

DOT Classification (for container sizes 4x1 gallon)

Proper Shipping Name:	Corrosive Liquid, Toxic, Inorganic, N.O.S. (Tar Acids, Polyalkylphenol Fraction)
Hazard Class:	8
UN Number:	2922
Packing Group:	II
Label:	8, 6.1, Corrosive
Special Instructions:	Not Applicable

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name:	Corrosive Liquid, Toxic, Inorganic, N.O.S. (Tar Acids, Polyalkylphenol Fraction)
Hazard Class:	8
UN Number:	2922
Packing Group:	II
Label:	8, 6.1, Corrosive
Special Instructions:	Not Applicable

IMDG Classification (for container sizes 4x1 gallon)

Proper Shipping Name:	Corrosive Liquid, Toxic, Inorganic, N.O.S. (Tar Acids, Polyalkylphenol Fraction)
Hazard Class:	8
UN Number:	2922
Packing Group:	II
Label:	8, 6.1, Corrosive
Special Instructions:	Not Applicable

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

Proper Shipping Name:	Corrosive Liquid, Toxic, Inorganic, N.O.S. (Tar Acids, Polyalkylphenol Fraction)
Hazard Class:	8
UN Number:	2922
Packing Group:	II
Label:	8, 6.1, Corrosive
Special Instructions:	Not Applicable

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

Proper Shipping Name:	Corrosive Liquid, Toxic, Inorganic, N.O.S. (Tar Acids, Polyalkylphenol Fraction)
Hazard Class:	8
UN Number:	2922
Packing Group:	II
Label:	8, 6.1, Corrosive
Special Instructions:	Not Applicable

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name:	Corrosive Liquid, Toxic, Inorganic, N.O.S. (Tar Acids, Polyalkylphenol Fraction)
Hazard Class:	8
UN Number:	2922
Packing Group:	II
Label:	8, 6.1, Corrosive
Special Instructions:	Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name:	Corrosive Liquid, Toxic, Inorganic, N.O.S. (Tar Acids, Polyalkylphenol Fraction)
Hazard Class:	8
UN Number:	2922
Packing Group:	II
Label:	8, 6.1, Corrosive
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:	2
Flammability:	1
Instability:	0

HMIS Hazard Ratings	
Health:	2
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

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Revision Date:	Not Applicable
Replaces:	Not Applicable

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