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(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[®] BioPhene[™] Disinfectant**
 EPA Signal Word: **DANGER**
 Chemical Name: Not Applicable
 Chemical Class: Disinfectant
 EPA Registration Number: 61282-53

Section(s) Revised: Section 3, 14

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen	Percentage By Weight
**o-Phenylphenol (CAS No. 90-43-7)	Not Established	Not Established	Not Established	No	7.96 %
**o-Benzyl-P-Chlorophenol (CAS No. 120-32-1)	Not Established	Not Established	Not Established	IARC-2B	10.00 %
P-Tert-Amylphenol (CAS No. 80-46-6)	Not Established	Not Established	Not Established	No	1.98 %
Isopropyl Alcohol (99 %) (CAS No. 67-63-0)	400 ppm, 980 mg/m ³ (8-hr TWA) 400 ppm (STEL)	200 ppm (8-hr TWA), A4, 400 ppm (STEL)	Not Established	No	13.30 %
Sodium Hydroxide (50 %) (CAS No. 1310-73-2)	2 mg/m ³ (8-hr TWA)	Ceiling 2 mg/m ³	Not Established	No	4.50 %

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

** Disclosure as a toxic substance 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: This product may be severely irritating to the eyes with tearing, pain or blurred vision and possible corneal damage.

Skin: This product may cause irritation to the skin and/or defatting of the skin with discomfort, itching, redness or rash.

Inhalation: This product may cause irritation of the nose and throat with sneezing, sore throat or runny nose.

Ingestion: This product may cause irritation of the digestive tract with stomach pain, heartburn, nausea, vomiting or diarrhea, and possibly burns to the throat and esophagus. Overexposure may cause central nervous system depression with dizziness, headache, confusion, incoordination and loss of consciousness.

This product contains o-Phenylphenol; repeated exposures or high oral doses may cause abnormal liver and kidney function.

Physical Properties

Appearance: Dark amber viscous liquid.
Odor: Alcohol.

Unusual Fire, Explosion, and Reactivity Hazards

Flammable 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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the 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. Call a poison control center or doctor for treatment advice

Skin Contact: Take off contaminated clothing. Immediately wash skin with soap and water. 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 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): 94° F (34° 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:

Will not occur.

Unusual Fire, Explosion, and Reactivity Hazards

Flammable 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: Absorb into inert material (sawdust, sand, oil dry or other absorbent material) and place in plastic or plastic-lined containers for proper disposal.

Large Spills: Absorb into inert 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 away from heat, sparks and flames. Keep container tightly closed. 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:	Dark amber viscous liquid
Odor:	Alcohol
Boiling Point:	>100°C
Specific Gravity:	1.06 g/ml (water=1)
Bulk Density:	Not Available
pH:	12-13
Solubility in H ₂ O:	Soluble
Vapor Pressure:	Not Established
Percent Volatile:	60% (by volume)
Evaporation Rate:	1 (water=1)

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 strong oxidants and cationic detergents.
Hazardous Decomposition Products:	Will not occur.

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:	This product may be severely irritating to the eyes with tearing, pain or blurred vision. Prolonged or repeated contact is corrosive to the eyes; corneal damage possible.
Skin Contact:	Causes irritation and/or defatting of the skin with itching, redness or rash.

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 4x1 gallon)

Proper Shipping Name:	Consumer Quantity, ORM-D
Hazard Class:	Not Applicable
UN Number:	Not Applicable
Packing Group:	Not Applicable
Label:	Not Applicable
Special Instructions:	Not Applicable

DOT Classification (for container sizes 20 – 200 liter)

Proper Shipping Name:	Flammable Liquid, N.O.S.
Hazard Class:	3
UN Number:	1993
Packing Group:	III
Label:	Not Applicable
Special Instructions:	Not Applicable

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name:	Flammable Liquid, N.O.S.
Hazard Class:	3
UN Number:	1993
Packing Group:	III
Label:	Not Applicable
Special Instructions:	Not Applicable

IMDG Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Flammable Liquid, N.O.S.
Hazard Class: 3
UN Number: 1993
Packing Group: III
Label: Not Applicable
Special Instructions: Not Applicable

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

Proper Shipping Name: Flammable Liquid, N.O.S.
Hazard Class: 3
UN Number: 1993
Packing Group: III
Label: Not Applicable
Special Instructions: Not Applicable

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Flammable Liquid, N.O.S.
Hazard Class: 3
UN Number: 1993
Packing Group: III
Label: Not Applicable
Special Instructions: Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Flammable Liquid, N.O.S.
Hazard Class: 3
UN Number: 1993
Packing Group: III
Label: Not Applicable
Special Instructions: Not Applicable

15. REGULATORY INFORMATION

EPA SARA Title III Hazard Classification

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

Section 313 Toxic Chemicals

o-Phenylphenol (CAS No. 90-43-7) and o-Benzyl-P-Chlorophenol (CAS No. 120-32-1)

California Proposition 65

This material contains the following component(s) which have been found by the State of California to cause cancer:
o-Phenylphenol

CERCLA/SARA 302 Reportable Quantity (RQ)

Not Listed

RCRA Hazardous Waste Classification (40 CFR 261)

Hazardous Waste Number D002

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

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