

SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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BioSentry® BioPhene™ Disinfectant

Revision 1
Revision date 2018-03-23

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	BioSentry® BioPhene™ Disinfectant
Product code	D12709568, D12695607.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Description	Disinfectant.
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1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshner Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	regulatorysupport@neogen.com

1.4. Emergency telephone number

Emergency telephone number	1-800-234-5333
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Further information


Manufactured By:	HACCO, Inc. is a wholly-owned subsidiary of Neogen Corporation. HACCO, Inc. 110 Hopkins Dr. Randolph, WI 53956-1316 U.S.A.
Hotline(s):	Medical: United States (1-800-498-5743), International (1-651-523-0318). Spill/CHEMTREC: United States (1-800-424-9300), International (1-703-527-3887).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Flam. Liq. 3: H226; Skin Corr. 1A: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412;
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2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 3: H226 - Flammable liquid and vapour. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

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2.2. Label elements

Precautionary Statement: Prevention	Skin Sens. 1: H317 - May cause an allergic skin reaction. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

Other hazards	No data is available on this product.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Ortho-benzyl para-chlorophenol		120-32-1			1 - 10%	Skin Irrit. 2: H315; Eye Dam. 1: H318; Acute Tox. 4: H332; STOT SE 3: H335; STOT RE 2: H373;
Sodium sulfite		7757-83-7	231-821-4		0 - 0.5%	EUH031;
Phenol, 4-(1,1-dimethylpropyl)-		80-46-6			1 - 10%	Skin Corr. 1A: H314; Skin Sens. 1: H317; Eye Dam. 1: H318; STOT SE 3: H336;
Benzenesulfonic acid, C10-16 alkyl derivs		68584-22-5			1 - 10%	Acute Tox. 4: H302; Skin Corr. 1C: H314; Eye Dam. 1: H318;
1,1'-oxybisbenzene, tetrapropylene derivatives, sulfonated, sodium salts		119345-04-9			1 - 10%	Eye Dam. 1: H318; Aquatic Acute 2: H401; Aquatic Chronic 2: H411;
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		1 - 10%	Skin Corr. 1A: H314;
tetrasodium ethylene diamine tetraacetate	607-428-00-2	64-02-8	200-573-9		0.5 - 1%	Acute Tox. 4: H302; Eye Dam. 1: H318;
Isopropanol (2-Propanol)	603-117-00-0	67-63-0	200-661-7		10 - 20%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
2-Phenylphenol (ISO)	604-020-00-6	90-43-7	201-993-5		1 - 10%	Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Aquatic Acute 1: H400;
Linalool		78-70-6	201-134-4		0 - 0.5%	Flam. Liq. 4: H227; Acute Tox. 4: H302; Acute Tox. 5: H303; Skin Irrit. 3: H316;
Lynalyl acetate		115-95-7			0 - 0.5%	Flam. Liq. 4: H227; Skin Irrit. 2: H315; Eye Irrit. 2: H319;
Isobornyl acetate		125-12-2	204-727-6		0 - 0.5%	Flam. Liq. 4: H227;
Camphor (Camphor, synthetic)		76-22-2	200-945-0		0 - 0.5%	Flam. Sol. 1: H228; Acute Tox. 4: H302+H332; STOT SE 2: H371;
Sulphuric acid...% (Sulfuric acid)	016-020-00-8	7664-93-9	231-639-5		0 - 0.5%	Skin Corr. 1A: H314;

Further information

	The exact percentage (concentration) of composition has been withheld as a trade secret.
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Contact lenses should be removed.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause irritation to respiratory system.
Eye contact	Causes severe burns. Risk of serious damage to eyes.
Skin contact	Causes severe burns. May cause an allergic skin reaction.
Ingestion	Ingestion may cause nausea and vomiting. May cause irritation to mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed

Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	If you feel unwell, seek medical advice (show the label where possible).

Further information

NOTE TO PHYSICIAN OR VETERINARIAN	Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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5.2. Special hazards arising from the substance or mixture

	Flammable liquid and vapour. Heat will increase pressure in sealed containers. Cool fire exposed containers with waterspray. Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	In case of fire and/or explosion do not breathe fumes. Wear suitable respiratory equipment when necessary.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Avoid sparks, flames, heat and sources of ignition. Avoid contact with skin and eyes. Wear suitable protective clothing and eye/face protection. Wear suitable respiratory equipment when necessary. Wash hands after handling the product. Ensure adequate ventilation of the working area.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.
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6.4. Reference to other sections

	See section 2, 8 & 13 for further information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Do not eat, drink or smoke in areas where this product is used or stored. Avoid contact with eyes and skin. Wear suitable protective clothing and eye/face protection. Ensure adequate ventilation of the working area.

7.2. Conditions for safe storage, including any incompatibilities

Flammable liquid and vapour. Keep away from sources of ignition - No smoking. Keep containers tightly closed. Keep in a cool, dry, well ventilated area. Store in correctly labelled containers.

7.3. Specific end use(s)

See section 1.2 for further information.

SECTION 8: Exposure controls/personal protection




8.1. Control parameters

Occupational exposure controls.

Exposure Limit Values

Camphor (Camphor, synthetic)	ACGIH TLV TWA: 2 ppm Notations: A4 OSHA PEL 8hr TWA mg m3: 2 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: 3 ppm OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Isopropanol (2-Propanol)	ACGIH TLV TWA: 200 ppm Notations: A4 OSHA PEL 8hr TWA mg m3: 980 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: 400 ppm OSHA PEL 8hr TWA ppm: 400 Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Sodium hydroxide	ACGIH TLV TWA: - Notations: - OSHA PEL 8hr TWA mg m3: 2 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: C 2 mg/m ³ OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:
Sulphuric acid...% (Sulfuric acid)	ACGIH TLV TWA: 0.2 mg/m ³ (T) Notations: A2 (M) OSHA PEL 8hr TWA mg m3: 1 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:	ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: - Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:

8.2. Exposure controls

Appropriate engineering controls Individual protection measures	  
	<p>Ensure adequate ventilation of the working area.</p> <p>Wear suitable protective clothing.</p>

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8.2. Exposure controls

Eye / face protection	Wear:.. Approved safety goggles.
Skin protection - Hand protection	Wear:.. Chemical resistant gloves.
Skin protection - Other	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Occupational exposure controls	Keep away from food, drink and animal feed and/ or feed products.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Viscous liquid.
Color	Amber
Odor	Alcoholic
Odour threshold	No data available
pH	> 12
Melting point	No data available
Freezing Point	No data available
Boiling point	> 100 °C
Flash point	34 °C
Evaporation rate	No data available
Flammability limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

	No data available.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	No data available.
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10.4. Conditions to avoid

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10.4. Conditions to avoid

	Avoid sparks, flames, heat and sources of ignition. Heat will increase pressure in sealed containers.
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10.5. Incompatible materials

	Oxidizing agents.
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10.6. Hazardous decomposition products

	Burning produces irritating, toxic and obnoxious fumes.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data available.
Skin corrosion/irritation	Causes severe burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available.
Carcinogenicity	Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No data available.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

11.1.4. Toxicological information

Camphor	Oral Mouse LD50: 1310 mg/kg	
Isopropanol	Oral Rat LD50: 4396 mg/kg	
Sulphuric acid...%	Inhalation Rat LC50/2 h: 510 mg/m3	Oral Rat LD50: 2140

SECTION 12: Ecological information

12.1. Toxicity

Camphor	Fish LC50/96h: 110 mg/l	
Sodium hydroxide	Fish LC50/96h: 125.000000 mg/l	Rainbow trout LC50/96h: 45.4 mg/l
Sulphuric acid...%	Fish LC50/96h: 42.0000 mg/l	Daphnia LC50/24h: 29

12.2. Persistence and degradability

	No data available.
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12.3. Bioaccumulative potential

	No data available.
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Partition coefficient

	BioSentry ® BioPhene™ Disinfectant No data available	Sulphuric acid...% Not relevant
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12.4. Mobility in soil

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12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in compliance with all local and national regulations.

Disposal methods

Contact a licensed waste disposal company.

Disposal of packaging

Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN2924

14.2. UN proper shipping name

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL)

14.3. Transport hazard class(es)

DOT	3
Subsidiary risk	8
IMDG	3
Subsidiary risk	8
IATA	3
Subsidiary risk	8

14.4. Packing group

Packing group II

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

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DOT	
Hazard ID	338
Tunnel Category	(D/E)
IMDG	
EmS Code	F-E S-C
IATA	
Packing Instruction (Cargo)	363
Maximum quantity	5 L
Packing Instruction (Passenger)	352
Maximum quantity	1 L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	<p>Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.</p> <p>All chemicals in this product are TSCA listed or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.</p> <p>US State Regulations:</p> <p>New Jersey Right-to-Know Hazardous Substance List: 2-Phenylphenol: Y, Isopropyl alcohol: Y, Sulfuric acid: Y</p> <p>Pennsylvania Right-to-Know Hazardous Substance List: Sodium hydroxide: Y, 2-Phenylphenol: Y, 2-Propanol: Y, Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-: Y, Sodium sulfate: Y, Sulfuric acid: Y, Phenol, 4-(1,1-Dimethylpropyl)-: Y.</p>
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15.2. Chemical safety assessment

	No data is available on this product.
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Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Sodium hydroxide (Sodium hydroxide (Na(OH)))	Y	N	N	N	N	N	Y	N	N
Isopropanol (2-Propanol)	Y	N	Y 1.0	N	N	N	N	N	N
2-Phenylphenol (ISO) ([1,1'-Biphenyl]-2-ol)	Y	Y	Y 1.0	Y	N	N	N	N	N
Camphor (Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-)	Y	N	N	N	N	N	N	N	N
Sulphuric acid...% (Sulfuric acid)	Y	Y	Y 1.0	N	N	N	Y	Y 1,000	Y 1,000

Further information

FIFRA	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
FIFRA Signal Word	DANGER.

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FIFRA Warning	Corrosive. Causes irreversible eye damage. Harmful if swallowed, or absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing. Avoid contact with skin. Avoid breathing spray mist. Wear long-sleeved shirt and long pants, socks and shoes, goggles or face shield and chemical resistant gloves. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.
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SECTION 16: Other information

Other information

Revision	<p>This document differs from the previous version in the following areas:.</p> <ul style="list-style-type: none"> 1 - Description. 1 - Further information. 1 - EPA Registration No. 1 - Manufactured By:. 1 - Hotline(s):. 15 - FIFRA. 15 - FIFRA Warning. 15 - EPA Registration No.
Text of Hazard Statements in Section 3	<p>Skin Irrit. 2: H315 - Causes skin irritation.</p> <p>Eye Dam. 1: H318 - Causes serious eye damage.</p> <p>Acute Tox. 4: H332 - Harmful if inhaled.</p> <p>STOT SE 3: H335 - May cause respiratory irritation.</p> <p>STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .</p> <p>EUH031 - Contact with acids liberates toxic gas.</p> <p>Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.</p> <p>Skin Sens. 1: H317 - May cause an allergic skin reaction.</p> <p>STOT SE 3: H336 - May cause drowsiness or dizziness.</p> <p>Acute Tox. 4: H302 - Harmful if swallowed.</p> <p>Skin Corr. 1C: H314 - Causes severe skin burns and eye damage.</p> <p>Aquatic Acute 2: H401 - Toxic to aquatic life.</p> <p>Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.</p> <p>Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.</p> <p>Eye Irrit. 2: H319 - Causes serious eye irritation.</p> <p>Flam. Liq. 2: H225 - Highly flammable liquid and vapour.</p> <p>Aquatic Acute 1: H400 - Very toxic to aquatic life.</p> <p>Flam. Liq. 4: H227 - Combustible liquid.</p> <p>Skin Irrit. 3: H316 - Causes mild skin irritation.</p> <p>Flam. Sol. 1: H228 - Flammable solid.</p> <p>Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled</p> <p>STOT SE 2: H371 - May cause damage to organs .</p>

Further information

	<p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF</p>
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Further information

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