

Safety Data Sheet (SDS)

Section 1: Chemical Product and Company Identification

Cat# : 8801

Part Name: LopHene Germicidal Detergent

EPA Registration #: 211-62-56753

Supplier: Decon Laboratories Inc.

460 Glennie Circle King of Prussia, Pa 19406
SDS Telephone # (610) 755-0800

Emergency Telephone Numbers

US Chemtrec: (800) 424-9300

Canada: (703) 527-3887

Identified uses: Laboratory use (disinfectant)

Email Contact: cveloski@deconlabs.com

Section 2: Hazards Identification:

Hazard Overview

GHS Classification

Acute Toxicity – inhalation (Vapors)

Skin corrosion/irritation

Serious eye damage/eye irritation

Flammable Liquids

Category 4

Category 1; Sub-category C

Category 1

Category 3

Signal Word: DANGER



Hazard and Precautionary Statements

Harmful if inhaled

Causes severe skin burns and eye damage

Flammable liquid and vapor

Precautionary Statements - Prevention

Use only outdoors or in a well-ventilated area

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Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a poison center or doctor/physician if you feel unwell
IF SWALLOWED: rinse mouth. Do NOT induce vomiting
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up – KEEP OUT OF REACH OF CHILDREN
Store in a well-ventilated place

Precautionary Statements - Disposal

Clean container promptly after emptying.
Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

Other Hazards

Toxic to aquatic life with long lasting effects
Toxic to aquatic life

Hazard Ratings:

If no data is listed the information is not available

HMIS Rating

Health 3 Flammability 1 Reactivity 2 Personal Protection B

NFPA Ratings

Health 3 Flammability 2 Reactivity 0

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Section 3: Composition/ Information on ingredients

Chemical Name	CAS No	Weight-%
Hexylene glycol	107-41-5	10-20
Citric Acid	77-92-9	10-20
Isopropyl alcohol	67-63-0	10-20
O-phenylphenol	90-43-7	1-10
Ortho-benzyl-para-Chlorophenol	120-32-1	1-10
Dodecyl benzene sulfonic acid	27176-87-0	<5

Section 4: First Aid Measures

First Aid Measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical advice/attention.

Skin Contact Wash with soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse.

Inhalation Remove to fresh air. Call a physician if you feel unwell.

Ingestion Dilute by giving a large amount of water. Do not induce vomiting without medical advice. Call a poison center or doctor/physician if you feel unwell.

Most important symptoms and effects

Symptoms May cause eye burns and permanent eye damage. Contact with skin causes severe irritation and possible burns. If swallowed: Drowsiness, irregular pulse, loss of consciousness. Possible gastrointestinal irritation or disturbance such as cramps and stomach pains. If spray mist is inhaled, possible lung damage, irritation and/or burning sensation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically. If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO₂).

Water. Dry chemical.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Combustion products may be toxic.

Hazardous Combustion Products Phenolic compounds. Carbon monoxide. Carbon dioxide (CO₂). Chlorine gas.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

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Section 6: Accidental Release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Personal Precautions Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Small spills (less than 1 gallon) may be washed down a drain with lots of water or cleaned up and disposed of into a sanitary sewer system.

Large spills (more than 1 gallon) should be contained and collected (by absorption [sand, clay, or other absorbent material] or vacuuming) then disposed of properly.

Section 7: Handling and Storage

Precautions for safe handling

Advice on Safe Handling Use only in well-ventilated areas. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use personal protection recommended in Section 8.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Do not contaminate food or feed stuffs. Do not reuse container. Keep out of the reach of children.

Incompatible Materials Strong oxidizing agents.

Section 8: Exposure Controls/ Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NOISH IDLH
Hexylene glycol 107-41-5	Ceiling: 25ppm	(vacated) Ceiling: 25ppm (vacated) Ceiling: 125mg/m ³	Ceiling: 25 ppm Ceiling: 125 mg/m ³
Citric Acid 77-92-9	-	15 mg/m ³ (Total)	-
Isopropyl Alcohol	STEL: 400 ppm	TWA: 400 ppm	DLH: 200ppm

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	TWA: 200 ppm	TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³
Triethanolamine 102-71-6	TWA: 5mg/m ³	-	-

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Use Safety Glasses when diluting concentrates or when splashing or spraying of diluted product into the eyes is likely.

Skin and Body Protection Gloves are required for exposure to the concentrate when diluting or for long exposures to end-use dilutions. Persons sensitive to cleaning chemicals should always wear gloves.

Respiratory Protection General ventilation is normally adequate. Use appropriate respiratory protection if application method produces a fine spray or mists.

General Hygiene Considerations Wash hands thoroughly after handling. Avoid contact with eyes, skin and clothing. Keep away from food and drink.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Slight alcohol
Appearance	Clear, light amber liquid	Odor Threshold	Not determined
Color	Light amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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pH	1.50-2.50 (concentrate) 3.00-4.50 (1:256 dilution)	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	100 °C / 212 °F	
Flash Point	41.7 °C / 107 °F	SETA
Evaporation Rate	Not established	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not established	
Vapor Density	Not established	
Specific Gravity	1.082-1.102	
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	

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Partition Coefficient	Not determined
Autoignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined

Section 10: Stability and Reactivity:

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Avoid high temperatures. Heat, flames and sparks.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Combustion products may include phenolics, carbon monoxide, carbon dioxide, and chlorine.

Section 11: Toxicological Information

Information on likely routes of exposure

Product Information

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Harmful if inhaled.

Ingestion May be harmful if swallowed

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hexylene glycol 107-41-5	=3692 mg/kg (Rat)	=8560 µL/kg (Rabbit)	>310mg/m ³ (Rat) 1hr
Citric Acid 77-92-9	= 3000 mg/kg (Rat)	-	-
Isopropyl alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rat) = 12870 mg/kg (Rabbit)	= 72.6 mg/L (Rat) 4 h
O-phenylphenol	=1049 mg/kg (Rat)	>2000 mg/kg (Rat)	>0.949 mg/L (Rat 1 h)

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Ortho-benzyl-para-Chlorophenol 120-32-1	=1700 mg/kg (Rat)	-	-
Dodecyl benzene sulfonic acid 27176-87-0	=500 mg/kg (Rat)	-	-
Triethanolamine 102-71-6	=4190 mg/kg (Rat)	>2000 mb/kg (Rabbit) 16mL/kg (Rat)	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Isopropyl Alcohol (IPA) is listed as an IARC Monograph Group 3 chemical. However, IARC Group 3 chemicals are "not classifiable as human carcinogens". IPA is classified as an IARC Group 1 chemical ONLY when manufactured by the strong-acid process. The IPA used in this product is NOT manufactured by the strong-acid process and is therefore not classifiable as a human carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		X
O-phenylphenol 90-43-7		Group 3		

Legend

IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity

Not determined

Section 12: Ecological Information

Ecotoxicity

Toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hexylene glycol 107-41-5		10500-11000: 96h Pimephales promelas mg/L LC50 flow-through 10000: 96h Lepomis macrochirus mg/L LC50 static 8690: 96h Pimephales promelas mg/L LC50 flow through 10700: 96h Pimephales	EC50=3038 mg/L 5 min	2700-3700; 48h Daphnia magna mg/L EC50

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		promelas mg/L LC50 static		
Citric Acid 77-92-9		1516: 96h Lepomis macrochirus mg/L LC50 static		120: 72h Daphnia magna mg/L EC50
Isopropyl Alcohol 67-63-0	1000: 96h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	9640: 96h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50		13299: 48 h Daphnia magna mg/L EC50
O-phenylphenol 90-43-7	0.85: 72 h Desmodesmus subspicatus mg/L EC50	3.4: 96 h Pimephales promelas mg/L LC50 flowthrough 2.74: 96 h Lepomis macrochirus mg/L LC50 2.75: 96 h Oncorhynchus mykiss mg/L LC50 5.8: 96 h Poecilia reticulata mg/L LC50 static	EC50 = 2.05 mg/L 5 min	1 - 2.5: 48 h Daphnia magna mg/L EC50 Static
Dodecyl benzene sulfonic acid 27176-87-0	29: 96 h Pseudokirchneriella subcapitata mg/L EC50	10.8: 96 h Oncorhynchus mykiss mg/L LC50 static 3.5 - 10: 96 h Brachydanio rerio mg/L LC50 static		5.88: 48 h Daphnia magna mg/L EC50
Triethanolamine 102-71-6	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static		1386: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Chemical Name	Partition Coefficient
Hexylene glycol 107-41-5	0.14
Citric Acid	-1.72

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77-92-9	
Isopropyl Alcohol 67-63-0	0.05
O-phenylphenol 90-43-7	3.18

Other Adverse Effects

Not determined

Section 13: Disposal Considerations

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol 67-63-0	Toxic Ignitable

Section 14: Transportation Information

Note:

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No UN2924
Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Citric acid)
Hazard Class 3
Subsidiary Hazard Class 8
Packing Group III

IATA

UN/ID No UN2924
Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Citric acid)
Hazard Class 3
Subsidiary Hazard Class 8
Packing Group III

IMDG

UN/ID No UN2924
Proper Shipping Name Flammable liquid, corrosive, n.o.s. (Isopropanol, Citric acid)
Hazard Class 3
Subsidiary Hazard Class 8
Packing Group III

Section 15: Regulatory Information

International Inventories

Not determined

US Federal Regulations

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CERCLA

Chemical Name	Hazardous Substances RQs	Cercla/Sara RQ	Reportable Quantity (RQ)
Dodecyl benzene sulfonic acid 27176-87-0	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313-Threshold Values %
Isopropyl Alcohol – 67-63-0	67-63-0	10-20	1.0
O-phenylphenol - -0-43-7	90-43-7	1-10	1.0
Ortho-benqyl-para-chlorophenol-120-32-1	120-32-1	1-10	0.1

CWA (Clean Water Act)

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Ortho-benzyl-para-chlorophenol 120-32-1 (1-10)		X		
Dodecyl benzene sulfonic acid 27176-87-0 (<5)	1000 lb			X

US State Regulations

This product is a U.S. EPA Registered pesticide, EPA Reg. No. 211-62-56753, and is subject to specific 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 products.

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
O-phenylphenol – 90-43-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hexylene glycol 107-41-5	X	X	X
Isopropyl Alcohol 67-63-0	X	X	X
O-phenylphenol 90-43-7	X	X	X
Ortho-benzyl-para-chlorophenol 120-32-1	X		X
Dodecyl benzene sulfonic acid 27176-87-0	X	X	X
Triethanolamine 102-71-6	X	X	X

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Section 16: Other Information

Date of Issue: 08/01/1998

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End of Safety Data Sheet