

MATERIAL SAFETY DATA SHEET

Product name: **GERMISYL**
Last revised date: 5 December 2013
Print date: 18 December 2013

1. SUBSTANCE AND SUPPLIER IDENTIFICATION

PRODUCT NAME: Germisyl
DIN: 02276976

MANUFACTURER: Germiphene Corporation
ADDRESS: 1379 Colborne Street East, Brantford,
Ontario N3T 5M1, Canada

PHONE: 519-759-7100
FAX: 519-759-1625

EMERGENCY PHONE: CANUTEC 613-996-6666

PRODUCT USE: Germicidal detergent and deodorant

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT: N,N-Didecyl-N,N-dimethylammonium chloride
CAS No 7173-51-5 **% wt** 8.8 - 9.7
HAZARDOUS: yes

INGREDIENT: N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride
CAS No 8001-54-5 **% wt** 5.8 - 6.4
HAZARDOUS: yes

INGREDIENT: N,N-Dimethyl-1-octylamine-N-oxide
CAS No 2605-78-9 **% wt** 2.8 - 3.6
HAZARDOUS: yes

INGREDIENT: Ethylenediaminetetraacetic acid, trisodium salt
CAS No 150-38-9 **% wt** 2.1 - 3.7
HAZARDOUS: yes

INGREDIENT: Ethanol
CAS No 64-17-5 **% wt** 1.9 - 3.1
HAZARDOUS: yes

3. HAZARD IDENTIFICATION

PRIMARY ROUTES OF ENTRY: Skin contact, inhalation, eye contact.

EFFECTS OF OVEREXPOSURE: Based on information available for similar products, it is anticipated that direct contact will produce severe eye and skin irritation and/or burns and possible irreversible damage. Solvent vapours or mists of product can produce irritation of the mucous membranes. Ingestion can produce immediate burning pain in the mouth, throat and abdomen; severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breath; circulatory shock; and/or convulsions.

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Exposure to ethyl alcohol concentrations of over 1,000 ppm may cause headache, irritation of the eyes, nose and throat, and, of long continued, drowsiness and lassitude, loss of appetite and inability to concentrate.

OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS: No effects indicated.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with running water for at least 15 minutes, holding the eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Seek medical attention immediately. If physician is not available, flush for additional 15 minutes and then transport victim to medical care.

SKIN: Wash with large amount of running water and soap (if available) for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminate shoes before reuse.

INGESTION: If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT INDUCE VOMITING. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or unconscious person.

INHALATION: Remove person to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention.

NOTES TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

5. FIREFIGHTING MEASURES

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical, water.
HAZARDOUS DECOMPOSITION PRODUCTS: Products of combustion are toxic.

6. ACCIDENTAL RELEASE MEASURES

DANGER! Corrosive liquid. Wear appropriate protective gear and respiratory protection where mist or vapours of unknown concentrations may be generated (self-contained breathing apparatus preferred).

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for recovery or disposal. Keep spill out of sewers and open bodies of water.

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7. HANDLING AND STORAGE

HANDLING AND STORAGE: Store at temperatures below 140°C. Keep containers closed until used. Do not contaminate drinking water, food or feed by storage or disposal.

OTHER PRECAUTIONS: Good personal hygiene practices are suggested.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

RESPIRATORY PROTECTION: In processes where mists or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

PROTECTIVE GLOVES: Rubber or neoprene, to prevent skin contact.

EYE PROTECTION: Wear chemical splash goggles if there is a potential for eye contact. Use safety glasses with side shields if there is no potential for eye contact.

OTHER PROTECTIVE EQUIPMENT: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear liquid (color depends upon optional dye added)

ODOUR: varies with fragrance added (if any)

PHYSICAL STATE: Liquid

PH: 6.0-8.0

BOILING POINT: Not known.

MELTING POINT: Not known.

FREEZING POINT: Not known.

SPECIFIC GRAVITY: 0.98-1.08

EVAPORATION RATE: Not known.

SOLUBILITY IN WATER: Soluble

VISCOSITY: Not known.

FLASH POINT: > 200°C

10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizing or reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS OR BY-PRODUCTS: Thermal decomposition may produce toxic vapours/fumes of hydrogen chloride, amines and other organic materials, and oxides of carbon and nitrogen.

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11. TOXICOLOGICAL INFORMATION

No toxicity information is available for this product. The information provided below is for closely related products:

ACUTE Oral rat LD50 1650 mg/kg
Dermal rabbit LD50 1870 mg/kg
Eye irritation rabbit, severe
Skin irritation rabbit, severe
Skin corrosivity DOT method, corrosive

12. ECOLOGICAL INFORMATION

N/Av

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: According to state, federal, provincial, and local regulations. Incineration is the preferred method.
CONTAINER DISPOSAL: 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.

14. TRANSPORT INFORMATION

TRANSPORT HAZARD CLASS: N/Av

15. REGULATORY INFORMATION

USA FEDERAL LEVEL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:

All components in this product are listed on the US EPA TSCA 8(b) inventory

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TSCA Section 12(b) Export Notification

Components present in this product which, if exported, could require either annual or one-time reporting under this regulation are as follows:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

US EPA Regulation on Pesticides:

This is an EPA registered pesticide (EPA Registration No. 47371-129). This material can only be used commercially in the EPA registered application(s) noted on the product label.

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act of 1980 requires notification of the National Response Center (Telephone 800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs) listed in 40 CFR 302.4:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

SARA Title III, Sections 302/304 (Superfund Amendments and Reauthorization Act of 1986) - This act requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and release Reportable Quantities (RQs) listed for the Components in 40 CFR 355:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Hazard *) Categories</u>
N,N-Didecyl-N,N-dimethylammonium chloride	7173-51-5	A
N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride	68424-85-1	A
N,N-Dimethyl-1-octylamine-N-oxide	2605-78-9	A
Ethanol	64-17-5	F

*) The five hazard categories are as follows: F=FI RE HAZARD; S= SUDDEN RELEASE OF PRESSURE; R=REACTI VE; A=I MMEDI ATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONI C) HEALTH HAZARD

SARA Title III Section 313 - This act requires submission of annual reports of the releases of the following components of this material if the threshold reporting quantities as listed in 40 CFR 372, are met or exceeded:

Typical Maximum

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<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
None known		

STATE RIGHT-TO-KNOW REGULATIONS:

CALIFORNIA PROPOSITION 65 - Components present in this material which the State of California has found to cause cancer, birth defects or other reproductive harm are as follows:

AS A CANCER HAZARD

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		
Acetaldehyde	75-07-0	300 ppb
Benzene	71-43-2	15 ppm
Benzyl chloride	100-44-7	30 ppm
N-Nitrosodimethylamine	62-75-9	160 ppb
Propylene oxide	75-56-9	3 ppm

AS A REPRODUCTIVE HAZARD

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Benzene	71-43-2	15 ppm
Toluene	108-88-3	15 ppm

MASSACHUSETTS Right-to-Know - The following components of this material are included in the Massachusetts Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Acetaldehyde	75-07-0	300 ppb
Benzene	71-43-2	15 ppm
Benzyl chloride	100-44-7	30 ppm
Ethanol	64-17-5	3.1%
Hydrogen peroxide	7722-84-1	30 ppm
Propylene oxide	75-56-9	3 ppm

MICHIGAN Critical Materials - The following components of this material are included in the Michigan Critical Materials List:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
None known		

NEW JERSEY Right-to-Know - The following components of this material are included in the New Jersey Hazardous Substance List and are present at or above reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
N,N-Didecyl-N,N-dimethylammonium chloride	7173-51-5	9.70%
N-Alkyl (C12-16)-N,N-dimethyl-N-benzylammonium chloride	68424-85-1	6.47%
Ethanol	64-17-5	3.1%

PENNSYLVANIA Right-to-Know - The following components of this material are included in the Pennsylvania Hazardous Substance List and are present at or above

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reportable levels:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Typical Maximum Concentration</u>
Ethanol	64-17-5	3.1%

16. OTHER INFORMATION

PREPARED BY: Germiphene Technical Department

Disclaimer

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