

# Material Safety Data Sheet – NeutraFect

## Material Safety Data Sheet – NeutraFect

### Section 1: Product & Company Identification

**Trade Name:** NeutraFect  
**EPA Reg. No.:** 47371-131-85023  
**Product Class:** Quaternary Ammonium Compound  
**Product Use:** Disinfectant/Cleaner  
**Manufacturer:** Genesan, LLC  
PO Box 400  
Gorham, ME 04038  
**Telephone:** 877-854-0072

**Transportation:** (800) 424-9300 \*  
\* For spill, leak, fire or transport accident emergencies  
**Date:** June 12, 2008

### Section 2: Composition/Information on Ingredients

Ingredient	CAS #	Wt. %
Alkyl dimethyl benzyl ammonium chloride (C <sub>12-16</sub> )	68424-85-1	1.69
Didecyl dimethyl ammonium chloride	7173-51-5	2.54
Ethanol	64-17-5	0.5 – 1.0

### Section 3: Hazards Identification

**Emergency Overview** Irritating to the eyes, skin, gastrointestinal tract, and respiratory system.

#### Potential Health Effects:

- Skin:** Direct skin contact may produce severe irritation, which upon prolonged contact, may produce skin burns. Harmful if absorbed through the skin.
- Eyes:** Based on information available for similar products, it is anticipated that direct eye contact will produce severe irritation and/or burns.
- Inhalation:** Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Harmful if inhaled.
- Ingestion:** Ingestion can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death.
- Chronic:** Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

### Section 4: First Aid Measures

- Eyes:** Flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician not available, flush for an additional 15 minutes and then transport victim to medical care.
- Skin or Clothing:** Wash with large amounts 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.
- Inhalation:** If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then, give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Note to Physician:** Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, as well as oxygen and measures to support breathing manually or mechanically may be needed.

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### Section 5: Fire Fighting Measures

<b>Flash Point:</b>	None when heated to 105°C – Tag Closed Cup
<b>Upper &amp; Lower Flame Limits</b>	Not determined.
<b>Extinguishing Media:</b>	Dry chemical, foam, carbon dioxide, water fog or any other agent suitable for surrounding fire.
<b>Fire Fighting Equipment &amp; Instructions:</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.
<b>Hazardous Combustion Products:</b>	Irritating and toxic gases or fumes may be released during a fire.
<b>Unusual Fire Explosion Hazards</b>	Combustion products are toxic.

### Section 6: Accidental Release Measures

#### Spill and Leak Procedures

<b>Emergency Action:</b>	Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
<b>Spill Cleanup:</b>	Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk.. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
<b>Large Spills:</b>	Dike far ahead of liquid spill for later disposal. Pump into containers for disposal.

### Section 7: Handling & Storage

<b>Handling Procedures:</b>	Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.
<b>Storage Procedures:</b>	Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

### Section 8: Exposure Controls/Personal Protection

<b>Engineering Controls:</b>	In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.
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#### Personal Protective Equipment:

<b>Eyes/Face:</b>	Wear chemical goggles. Use a face shield if splashing is possible.
<b>Skin:</b>	Use impervious gloves (rubber or neoprene) when needed. Wear suitable protective clothing.
<b>Respiratory:</b>	If exposure limits are exceeded or if irritation is experienced, a NIOSH/MSNA approved respirator or an organic/vapor removing cartridge respirator protection device should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.
<b>General:</b>	Eye wash fountain and emergency showers are recommended.

#### The following ingredients have established exposure guidelines:

Ingredient	Exposure Guideline	Guideline Value
Ethanol 64-17-5	ACGIH TLV (2005), OSHA PEL & NIOSH REL	1000 ppm (TWA)
	Alberta, British Columbia, Manitoba, New Brunswick, Northwest Territories, (Canada)	1000 ppm (TWA)
	Ontario, Quebec (Canada)	1000 ppm (TWAEV)
	Saskatchewan (Canada)	1000 ppm (TWA), 1250 ppm (STEL)
	Yukon (Canada)	1000 ppm (TWA), 1000 ppm (STEL)
	Mexico	1000 ppm (TWA)

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ACGIH TLV (2005), OSHA PEL & NIOSH REL	1000 ppm (TWA)
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All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.

## Section 9: Physical & Chemical Properties

**Flash Point:** None when heated to 105°C – Tag Closed Cup  
**Specific Gravity:** 1.006 (8.35lbs/gal)  
**Percent Volatiles:** Not determined.  
**Vapor Pressure:** Not determined.  
**VOC Content** ~ 1  
**Vapor Density:** Not determined.  
**Viscosity:** 1.4489 mm<sup>2</sup>/s (cSt) @ 22°C  
**Evaporation Rate:** Not determined.  
**Pour Point:** Not determined.  
**pH :** 7.0 – 8.0  
**Appearance and Odor:** Clear, light blue liquid with wintergreen fragrance.

## Section 10: Stability & Reactivity

**Chemical Stability:** Material is stable.  
**Conditions to Avoid:** Keep away from heat and strong oxidizing agents.  
**Incompatibilities:** Strong oxidizing agents (may result in fire.), reducing agents.  
**Hazardous Decomposition:** Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.  
**Hazardous Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Carcinogenicity** No Carcinogenicity data available for this product.  
**Acute Oral LD50** >1000 mg/kg for male and female rats.  
**Acute Dermal LD50** >2000 mg/kg for male and female rabbits.  
**Primary Skin** Possibly irritating or corrosive.  
**Primary Eye** Possibly irritating or corrosive.

### Chemicals Ingredients Listed as Potential or Known Carcinogens

Ingredient	OSHA	NTP	IARC
No ingredients listed in this section.			

## Section 12: Ecological Information

**Ecotoxicity** No data available for this product but it is considered toxic to fish.

## Section 13: Disposal Considerations

### Disposal Instructions

This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

## Section 14: Transport Information

**DOT Hazard Class** Non-Hazardous, not regulated.  
**DOT Proper Shipping Name** Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

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## Section 15: Regulatory Information

### TSCA Status

While all ingredients are listed on the TSCA Chemical Inventory, this product is regulated as a pesticide under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.

### Other Chemical Inventories

All components of this product are listed on the following inventories: Canada (DSL), China, and Philippines. One or more ingredients are not listed on the following inventories: Australia, European Union, Japan and Korea.

### CERCL/SARA

**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 the 40 CFR 370:  
**Classification of this product:** Immediate, Fire

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

Chemical Name	CAS No.	Maximum Concentration	Comment
No ingredients listed in this section.			

**Reportable Quantities/Threshold Planning Quantities:** CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) 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). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

Chemical Name	Reportable Quantity (RQ)	Threshold Planning Quantity (TPQ)
No ingredients listed in this section.		

### State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List

Chemical Name	State List
Benzyl Chloride (trace < 100 ppm)	AZ, CA, CAP65C, CT, IL, MA, MN, NJ, PA, RI
Ethanol	AZ, CA, CAP65R (ingestion only), CT, ID, MA, MN, NJ, PA, RI

AZ – Arizona Ambient Air Quality Guidelines	IL – Illinois Toxic Air Contaminant - Carcinogenic
CT – Connecticut Hazardous Air Pollutants	MA – Massachusetts Right to Know List
CA – California Director's List of Hazardous Substances	MN – Minnesota Hazardous Substances List
CA65C – California Prop 65 Carcinogen	NJ – New Jersey Right to Know List
CA65R – California Prop 65 Reproductive Toxin	PA – Pennsylvania Right to Know List
ID – Idaho Non-carcinogen Toxic Air Pollutants	RI – Rhode Island Hazardous Substances List

**WHMIS Classification:** E, D2B. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## Section 16: Other Information

**Current Issue Date:** August, 2007  
**Previous Issue Date:** None  
**Changes from Previous Issue Date:** New MSDS

Hazard Ratings	HMIS (II)	NFPA
Health	3	3
Flammability	0	0
Reactivity	0	0
PPE	X	

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