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(Regulatory Office)
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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: **Spectrasol[®] Disinfectant**

EPA Signal Word: **DANGER**

Chemical Name: Cationic / Nonionic Blend

Chemical Class: Disinfectant

EPA Registration Number: 1839-166-134

Section(s) Revised: Header (emergency phone numbers)

2. COMPOSITION/INFORMATION ON KEY INGREDIENTS

Ingredient Name	OSHA PEL	ACGIH TLV (Units)	NTP/IARC/OSHA Carcinogen	Percentage by Weight
Octyl decyl dimethyl ammonium chloride (CAS No. 68424-95-3)	Not Established	Not Established	No	3.255 %
Dioctyl dimethyl ammonium chloride (CAS No. 5538-94-3)	Not Established	Not Established	No	1.628 %
Didecyl dimethyl ammonium chloride (CAS No. 7173-51-5)	Not Established	Not Established	No	1.628 %
Alkyl (50% C ₁₄ , 40% C ₁₂ , 10% C ₁₆) dimethyl benzyl ammonium chloride (CAS No. 68424-85-1)	Not Established	Not Established	No	4.339 %
Ethanol (CAS No. 64-17-5)	1,000 ppm or 1.900 mg/m ³ (8-hr TWA) 3300 ppm IDLH	1,000 ppm or 1.900 mg/m ³ (8-hr TWA)	No	< 3.000 %

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

3. HAZARDS IDENTIFICATION SUMMARY

Emergency Overview

DANGER! Corrosive. May cause severe irritation or burns to the eyes. May cause irritation to the skin.

Physical Properties

Appearance: Clear, colorless solution
Odor: Mild mint

Unusual Fire, Explosion, and Reactivity Hazards

Strong acids and bases react with aluminum to form hydrogen.

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).**

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: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

If swallowed: 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.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): > 201° F PMCC (>93.9° C) OSHA IIIB Combustible
 Flammable Limits (% in Air): Lower: % Not Available Upper: % Not Available
 Autoignition Temperature: Not Available
 Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam, water spray or fog.

Hazardous Combustion Products:

Nitrous oxides, ammoniacal vapors

Unusual Fire, Explosion, and Reactivity Hazards

Strong acids and bases react with aluminum to form hydrogen.

In Case of Fire

Use water spray to cool containers exposed to fire. Remain upwind. Avoid breathing smoke. Avoid using heavy streams of water.

Fire fighting Equipment / Instructions

Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Action

Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Surfaces may become slippery after spillage.

Do not touch or walk through spilled material. Wear appropriate personal protective equipment during cleanup.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent material from entering sewers, waterways or low areas.

Large Spills: Dike ahead of liquid spill for later disposal. Absorb into noncombustible material (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

Handling Procedures: Avoid contact with skin and eyes. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage precautions: Store in a dry, well-ventilated area. Avoid freezing or excessive heat.
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local ventilation is recommended. Work in well-ventilated areas.

Eye Contact: Chemical goggles or shielded safety glasses.

Skin Contact: Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear chemical resistant gloves (i.e., nitrile or butyl).

Inhalation: Wear a NIOSH approved respirator if necessary.

General: Eye wash fountain and emergency showers are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless solution
Odor:	Mild mint
Boiling Point:	200° F (93.3° C)
Specific Gravity:	1.011 g/ml (water = 1)
Bulk Density:	8.41 lbs/gallon (at 25° C)
pH:	6.6 (as is)
Solubility in H ₂ O:	Completely Soluble
Vapor Pressure:	Not Established
Percent Volatile:	75-85% (by volume)
Evaporation Rate:	Estimated slower than ethyl ether.

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. STABILTY AND REACTIVITY

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Avoid strong oxidizing agents.
Materials to Avoid:	Anionic materials, strong oxidizers, strong acids.
Hazardous Decomposition Products:	Nitrous oxides, ammoniacal vapors.

11. TOXICOLOGICAL INFORMATIONAcute Toxicity/Irritation Studies (Finished Product)

Ingestion:	Acute Oral (LD ₅₀ Mouse) :	3,450 mg/kg (Ethanol)
	Acute Oral (LD ₅₀ Rat) :	7,060 mg/kg (Ethanol)
	Acute Oral (LD ₅₀ Mouse) :	268 mg/kg (Didecyl dimethyl ammonium chloride)
	Acute Oral (LD ₅₀ Rat) :	919 mg/kg (Didecyl dimethyl ammonium chloride)
	Acute Oral (LD ₅₀ Mouse) :	426 mg/kg (Alkyl dimethyl benzyl ammonium chloride)
	Acute Oral (LD ₅₀ Rat) :	84 mg/kg (Alkyl dimethyl benzyl ammonium chloride)
Dermal:	Acute Dermal (LD ₅₀ Rabbit) :	Not Available
Inhalation:	Acute Inhalation (LC ₅₀ Mouse, 4-hr) :	39 g/m ³ (Ethanol)
	Acute Inhalation (LC ₅₀ Rat, 10-hr) :	>20,000 ppm (Ethanol)
Eye Contact:	(Rabbit) Undiluted product is corrosive and will cause eye damage.	
Skin Contact:	(Rabbit) Moderate Skin Irritation	

Carcinogenicity

None of the components present in this material at concentrations equal or greater to 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

12. ECOLOGICAL INFORMATIONEcotoxicity

Toxic to fish. Toxic to aquatic organisms.

Do not discharge effluent containing this product directly to water. Do not contaminate water when disposing of equipment wash water.

13. DISPOSAL CONSIDERATIONSContainer 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

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

14. TRANSPORT INFORMATIONDOT Classification (for container sizes 20 – 200 liter)

Proper Shipping Name:	Deodorant or Disinfectant, NOI (102120; CLASS: 60)
Hazard Class:	Not Applicable
UN Number:	Not Applicable
Packing Group:	Not Applicable
Label:	Not Applicable
Special Instructions:	Not Applicable

DOT Classification (for container sizes 4x1 gallon)

Proper Shipping Name:	Deodorant or Disinfectant, NOI (102120; CLASS: 60)
Hazard Class:	Not Applicable
UN Number:	Not Applicable
Packing Group:	Not Applicable
Label:	Not Applicable
Special Instructions:	Not Applicable

IMDG Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Deodorant or Disinfectant, NOI (102120; CLASS: 60)
Hazard Class: Not Applicable
UN Number: Not Applicable
Packing Group: Not Applicable
Label: Not Applicable
Special Instructions: Not Applicable

IMDG Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (102120; CLASS: 60)
Hazard Class: Not Applicable
UN Number: Not Applicable
Packing Group: Not Applicable
Label: Not Applicable
Special Instructions: Not Applicable

IATA Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Deodorant or Disinfectant, NOI (102120; CLASS: 60)
Hazard Class: Not Applicable
UN Number: Not Applicable
Packing Group: Not Applicable
Label: Not Applicable
Special Instructions: Not Applicable

IATA Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (102120; CLASS: 60)
Hazard Class: Not Applicable
UN Number: Not Applicable
Packing Group: Not Applicable
Label: Not Applicable
Special Instructions: Not Applicable

Canadian Classification (for container sizes 20 – 200 liter)

Proper Shipping Name: Deodorant or Disinfectant, NOI (102120; CLASS: 60)
Hazard Class: Not Applicable
UN Number: Not Applicable
Packing Group: Not Applicable
Label: Not Applicable
Special Instructions: Not Applicable

Canadian Classification (for container sizes 4x1 gallon)

Proper Shipping Name: Deodorant or Disinfectant, NOI (102120; CLASS: 60)
Hazard Class: Not Applicable
UN Number: Not Applicable
Packing Group: Not Applicable
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

Not Applicable

California Proposition 65

This product may contain the following ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm: Ethylene Oxide (CAS No. 75-21-8), Nitrotriacetic acid (NTA) (CAS No. 139-13-9).

Ethanol (CAS No. 64-17-5): Developmental toxicity (when in alcoholic beverages); initial date 10/1/87.

Reportable Quantity (RQ) CERCLA/SARA 302/DOT

Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261)

Not Listed

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 3
 Flammability: 1
 Instability: 0

HMIS Hazard Ratings

Health: 3
 Flammability: 1
 Reactivity: 0
 PPE: X

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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