

MATERIAL SAFETY DATA SHEET

Product Name: **MINT II DISINFECTANT**

Product No. 084.00

SAVIN PRODUCTS COMPANY, INC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MINT II DISINFECTANT
Emergency phone: Chemtrec: 800-424-9300

Product Information: 781-961-2744

Company: SAVIN PRODUCTS COMPANY, INC
214 HIGH STREET
RANDOLPH, MA 02368

Date Prepared: 01-24-04

Supersedes: 10-02-00

Prepared by: KJS

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Exposure Limits</u>	<u>Typical % by Weight</u>
1. Di-n-alkyl(C8/C10-50%, C10/C10-30%, C8/C8-20%) dimethyl ammonium chloride	68424-95-3	N/A	1 - 5
2. Dialkyl(C8-C10) dimethyl ammonium Chloride (Quaternary)	68424-85-1	N/A	1 - 5
3. Nonylphenol Ethoxylate	9016-45-9	N/A	1 - 5
4. Tetrasodium salt of Ethylenediamine tetraacetic acid	64-02-8	N/A	1 - 5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CORROSIVE. Causes eye burns. May cause skin damage with prolonged contact. Inhalation of mist can cause damage to respiratory tract. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid breathing mist.. Do not take internally. EPA registered MICROBIOCIDES! Read label before using.

EFFECTS of OVEREXPOSURE:

CARCINOGENICITY:

NTP: No

IARC: No

OSHA: No

EYES: Causes severe eye irritation or burns.

SKIN: Repeated or prolonged contact may cause skin irritation.

INHALATION: Mist may cause irritation to mucous membranes and respiratory tract.

INGESTION: Can result in severe gastric irritation, nausea, vomiting, pain and swelling of larynx.

CHRONIC EFFECTS and MEDICAL CONDITIONS: The effects of long-term, low-level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposure. This product may aggravate existing eye, skin and respiratory conditions.

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4. FIRST AID MEASURES

EYES: Flush with copious amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention.

SKIN: Immediately wash with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION: Remove to fresh air. If breathing is difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention.

INGESTION: If swallowed, give several glasses of water. Do not induce vomiting. If vomiting does occur, give fluids again and keep head below hips to help prevent aspiration. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: >200°F

Test: SETA CC ASTM D3278

Explosive Limits:

LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Not combustible under test conditions. Use procedures which are appropriate to surrounding fire.

SPECIAL PROCEDURES & UNUSUAL HAZARDS: Protect eyes and skin when extinguishing flames. Very foamy when mixed with water.

FIREFIGHTING INSTRUCTIONS: Firefighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Maybe slippery underfoot. Protect eyes and skin during cleanup. Dilute small spills with plenty of water and discharge to sewer if permitted.

LARGE SPILLS: Limit access to area. 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.

CAUTION: Floor may become slippery in the spill area.

7. HANDLING AND STORAGE

Store in a cool dry place. Keep container tightly closed when not in use. Guard against container damage and puncture. Pick up spills immediately. Always add product to water when making dilute solutions. Guard against freezing. Store to avoid contamination of water, food & animal feed.

FOR COMMERCIAL USE ONLY! KEEP AWAY FROM CHILDREN!

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION: Avoid splashing. Wear chemical-resistant safety goggles if necessary. Contact lenses must not be worn.

PROTECTIVE GLOVES: Depending on conditions of use, protective gloves, apron, boots, head and face protection should be worn. This equipment should be cleaned thoroughly after each use.

RESPIRATORY PROTECTION: Avoid inhaling spray, mist or dust. Where exposure through inhalation may occur from use, NIOSH/MSHA approved respiratory protection equipment is recommended.

VENTILATION: Ventilation is required in case of mist conditions. Either local exhaust or general room ventilation is usually adequate.

OTHER PROTECTIVE EQUIPMENT: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, thin, green, foamy liquid

BOILING POINT: approx. 212-220°F @ 1ATM

FREEZE/MELT POINT: approx. 32°F

VAPOR PRESSURE (mm): ca 20 mm Hg @ 70°F

VAPOR DENSITY (air=1): ca water.

EVAPORATION RATE: ca water

SOLUBILITY IN WATER: Complete.

SPECIFIC GRAVITY: 1.02 @ 20°C

DENSITY: 8.5 lb/gal

pH(as is): 13.0

ODOR: Mint.

ODOR THRESHOLD (ppm): Not determined.

% Volatile/Volume 90%

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable.
INCOMPATIBILITY: Strong acids, strong oxidizers and excessive heat.
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
HAZARDOUS POLYMERIZATION: None

11. TOXICOLOGICAL INFORMATION

No LD50 or LC50 found for oral, dermal or inhalation routes of administration.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL/CHEMICAL FATE INFORMATION: Toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

RCRA: This product, if disposed as shipped, is considered a hazardous waste as specified in 40 CFR 261.22. Dilute solutions of this product with a pH of <12.5 are not classified as hazardous waste.
Dispose in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

SHIPPING NAME: Corrosive Liquids, n.o.s (Quaternary Ammonium Compounds, Tetrasodium Ethylenediamine Tetraacetate)
HAZARD CLASS: 8
ID #: UN1760
PACKING GROUP: III
LABEL: CORROSIVE

15. REGULATORY INFORMATION

This material does not contain nor was it manufactured using ozone-depleting chemicals.

U.S. FEDERAL REGULATIONS:

TSCA STATUS: All ingredients on Toxic Substance Control Act Inventory.

FIFRA: EPA Registration #6836-73-712

CERCLA REPORTABLE QUANTITY: NONE

SARA TITLE III:

Section 302 Extremely Hazardous Substances:	None.
Section 311/312 Hazardous Categories:	Immediate (Acute)
Section 313 Toxic Chemicals:	None

16. OTHER INFORMATION

All label precautions must be observed when handling, storing and transporting empty containers due to product residues. Do not reuse this container unless it is professionally cleaned and reconditioned.

REFERENCES:

- U.S. Dept. of Health and Human Services, NIOSH: Registry of Toxic Effects of Chemical Substances, 1985-86 Editions.
- Sax, N. Irving and Lewis, R.J.: Dangerous Properties of Industrial Materials, 7th Edition, Van Nostrand Reinhold Co., 1989.
- Lewis, R.J.: Hawley's Condensed Chemical Dictionary, 12th Edition, Van Nostrand Reinhold Co., 1993.
- U.S. Dept. of Transportation, U.S. Coast Guard: CHRIS Hazardous Chemical Data, 1982.
- U.S. Dept. of Labor, OSHA: Air Contaminants - Permissible Exposure Limits, 1989.
- National Fire Protection Association (NFPA): Fire Protection Guide on Hazardous Materials (NFPA 325M/49/491M/704), 9th Edition, 1986.
- National Fire Protection Association (NFPA): Hazardous Materials Response Handbook, Henry, M.F., Editor, 1989.
- Merck & Co., Inc.: The Merck Index, 11th Edition, 1989.

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