MATERIAL SAFETY DATA SHEET SECTION 1 - PRODUCT/MANUFACTURER'S IDENTITY Mark E II One-Step Disinfectant, Product Name: Formula ID Number: SL45 Germicidal Detergent and MSDS File Name: MARK E II ONE-STEP HAZARD RATING Concentrate In Dilution Deodorant EPA Reg #: 10324-108-3640 4 = Extreme ST-756, ST-757, ST-758, ST-760 DOT Hazard Class: 8, Corrosive Synonyms: 0 Flammability 0 3 = HighDOT Shipping Name: UN1903, disinfectants, liquid, 3 Health 1 Stearns Packaging Corporation Company: 2 = Moderate 4200 Sycamore Avenue (53714) corrosive, n.o.s. (quaternary ammonium chloride), 0 0 Reactivity 1 = Slight PO Box 3216 8, PG III, Ltd Qty. Item 44155, Sub 4, Class 70 None Special Hazard None 0 = Insignificant Madison, WI 53704-0216 NSF Certified: None 800-655-5008 Phone: Green Seal Certified: None 608-246-5149 Fax: Abbreviation Key: N.A.=Not Applicable, Emergency Contact: CHEW-TEL, 800-255-3924 www.stearnspkg.com Website: N.D.=Not Determined SECTION 2 - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION CHEMICAL IDENTITY Alcohol ethoxylate Alkyl dimethyl benzyl ammonium chloride (C12-C16) CAS NO. 68439-46-3 **HAZARD** %(Optional) PEL(ppm) TLV(ppm) Other Limits Irritant 9 – 68424-85-1 7 – 9 Irritant N.D. Octyl decyl dimethyl ammonium chloride Dioctyl dimethyl ammonium chloride 32426-11-2 Irritant N.D. 6 - 85538-94-3 N.D. Irritant 3 - 4Didecyl dimethyl ammonium chloride Tetrasodium ethylenediamine tetraacetate 7173-51-5 Irritant N.D. 3 - 464-02-8 Irritant N.D. SARA Section 313 Title III Notification Required: No **SECTION 3 – PHYSICAL DATA** Appearance and Odor: Solubility in water: Complete Vapor Pressure (mm Hg): N.D. pH (Concentrate): 8.0 - 8.6 Clear light red liquid, Boiling Point: N.D. Vapor Density (Air=1): N.D. pH (1:256 Dilution): 7.0 - 8.5 fresh scent Melting Point: N.A Evaporation Rate (Butyl Acetate=1): N.D. Specific Gravity (Water=1): 1.018 SECTION 4 – FIRE AND EXPLOSION HAZARD DATA Flash Point and Method: Over 210° F (over 99° C) Special Fire Fighting Procedures: Firefighters should wear full protective clothing LEL: N.D. including self-contained breathing apparatus. Cool fire exposed containers Flammable Limits UEL: N.D. with spray. Solid water streams may spread burning liquid. Extinguishing Media: CO2, water fog, dry chemical, foam Unusual Fire & Explosion Hazards: Water spray may reduce vapor but will increase foaming. Water may not prevent ignition in closed spaces

SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable:_ Unstable: Incompatibility (Materials to Avoid): Strong oxidizing agents (may result in fire), reducing agents

Hazardous Polymerization: May Occur Will Not Occur Conditions to Avoid: Keep away from heat and strong oxidizing agents.

Hazardous Decomposition or By-Products: Carbon monoxide, carbon dioxide, and toxic hydrogen chloride vapors

SECTION 6 - HEALTH HAZARD DATA/FIRST AID PROCEDURES

Health Hazards (Acute and Chronic): Corrosive to the eyes, skin, gastrointestinal tract, and respiratory system.

Signs and Symptoms of Exposure: Eyes: Causes burns and may result in permanent injury to eyes including blindness. Skin: Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through skin. Inhalation: Mists and vapors can irritate the throat and respiratory tract. 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, nausea, vomiting, and diarrhea and possibly death. Harmful if swallowed.

Medical Conditions Aggravated by Exposure: No data available Carcinogenicity: IARC Monographs? Yes_

No_X NTP? Yes OSHA Regulated? Yes No **Emergency and First Aid Procedures**

Eyes: Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 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. Probable mucosal damage may

contraindicate the use of gastric lavage

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Ventilation: Mechanical (explosion proof): Provide adequate local exhaust ventilation (explosion proof) to maintain worker exposure below exposure limits.

Skin Protection: Use impervious gloves (rubber or neoprene). Wear suitable protective clothing.

Eye Protection: Wear chemical goggles. Use a face shield if splashing is

Respiratory Protection: If exposure limits are exceeded or if irritation is experienced, an organic-vapor removing cartridge with a pre-filter respiratory (MSHA/NIOSH approved) protection 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.

Other Precautions: Eye wash fountain and emergency showers are recommended. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

Steps to be Taken if Material is Spilled or Released: Stay upwind. Keep out of low areas where vapors may accumulate. Isolate spill or leak area immediately. Keep unauthorized personnel away. 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. A vapor suppressing foam may be used to reduce vapors. 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. Use clean non-sparking tools to collect absorbed material. Large spills: Dike far ahead of liquid spill for later disposal. Water spray may reduce vapor but will increase foaming. Water may not prevent ignition in closed spaces.

Waste Disposal: Although not considered a hazardous waste, the discarding or disposal of this material should 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. Consult your state DNR or the EPA for specific questions. Wastewater should never enter a fresh water body without treatment. Unused product or its solutions may be poured down the drain.

Handling and Storage: 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. Avoid contact with skin and eyes.

SECTION 8 – OTHER REGULATORY INFORMATION

Acute Oral LD₅₀ – male and female rats combined 809 mg/kg body weight Acute Dermal – Greater than 2g/kg body weight Primary Skin – Corrosive – Rabbits Tox. Category I for dermal effect Primary Eye – Corrosive – Rabbits Tox. Category I Very toxic to aquatic organisms. Information available upon request. Personal protection: safety glasses, gloves

All ingredients are listed on the TSCA inventory.
California Proposition 65: Benzyl chloride (trace impurity) <10ppm
SARA 311/312 (40 CFR 370)Hazards Categories: Fire, Acute(Immediate)
EPA CERCLA RQ: No ingredients listed in this section.

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