

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: Mark E II One-Step Disinfectant, Germicidal Detergent and Deodorant  
Formula ID Number: SL-45  
MSDS File Name: MARK E II ONE-STEP  
EPA Reg #: 10324-108-3640  
Synonyms: ST-756, ST-757, ST-758, ST-759, ST-760, ST-760N, ST-2145  
DOT Hazard Class: None  
DOT Shipping Name: Disinfectant, NOI, liquid. Item 57100, Sub. 3. Class 85  
Company: Stearns Packaging Corporation  
4200 Sycamore Avenue (53714)  
PO Box 3216  
Madison, WI 53704-0216  
NSF Certified: None  
Phone: 800-655-5008  
Fax: 608-246-5149

Concentrate		In Dilution		HAZARD RATING
1	Flammability	0		
2	Health	1		3 = High
0	Reactivity	0		2 = Moderate
None	Special Hazard	None		1 = Slight
				0 = Insignificant

**Emergency Contact: CHEM-TEL, 800-255-3924**

Abbreviation Key: N.A.=Not Applicable, N.D.=Not Determined

## SECTION 2 – HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CHEMICAL IDENTITY	CAS NO.	HAZARD	PEL(ppm)	TLV(ppm)	%(Optional)	Other Limits
Alkyl (C12-C16) dimethyl benzyl ammonium chloride	68424-85-1	Irritant		N.D.	8.680	
Octyl decyl dimethyl ammonium chloride	32426-11-2	Irritant		N.D.	6.510	
Dioctyl dimethyl ammonium chloride	5538-94-3	Irritant		N.D.	3.255	
Didecyl dimethyl ammonium chloride	7173-51-5			N.D.	3.255	
Tetrasodium ethylenediamine tetraacetate	64-02-8			N.D.	3.800	
Ethoxylated nonylphenol	9016-45-9			N.D.	5.000	

SARA Section 313 Title III Notification Required: No

## SECTION 3 – PHYSICAL DATA

Appearance and Odor: Light red liquid, fresh scent.  
Solubility in water: Complete  
Boiling Point: N.D.  
Melting Point: N.A.  
Vapor Pressure (mm Hg): N.D.  
Vapor Density (Air=1): <1  
Evaporation Rate (Butyl Acetate=1): 1  
pH (Concentrate): 7 - 9  
pH (1:256 Dilution): 7.0 ± 0.5  
Specific Gravity: 1.017

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: Non-combustible, >200°F  
Special Fire Fighting Procedures: Cool fire-exposed containers with spray. Must wear MSHA/NIOSH approved self-contained breathing apparatus.  
Flammable Limits: LEL: N.A., UEL: N.A.  
Unusual Fire & Explosion Hazards: Explosive mixtures can form with air. Combustion products are toxic. Solvents vapors can travel to an ignition source and flash back.  
Extinguishing Media: CO<sub>2</sub>, water FOG, dry chemical, foam

## SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable:  Unstable: \_\_\_\_\_  
Conditions to Avoid: N.A.  
Hazardous Polymerization: May Occur \_\_\_\_\_ Will Not Occur   
Incompatibility (Materials to Avoid): Strong oxidizers or reducing agents  
Conditions to Avoid: Mixing with strong oxidizers or reducing agents.  
Hazardous Decomposition or By-Products: Toxic hydrogen chloride fumes, oxides of carbon and nitrogen.

## SECTION 6 – HEALTH HAZARD DATA/FIRST AID PROCEDURES

Health Hazards (Acute and Chronic): Irritation of mucous membrane can be caused by solvent vapors or mists or products. Severe eye damage can result from direct contact. Severe irritation to skin. May be fatal if ingested. Burning pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions.  
Signs and Symptoms of Exposure: Irritation of eyes and possibly upon direct prolonged contact with skin. Mists may irritate mucous membranes.  
Medical Conditions Aggravated by Exposure: No data available  
Carcinogenicity: IARC Monographs? Yes \_\_\_\_\_ No   
NTP? Yes \_\_\_\_\_ No  OSHA Regulated? Yes \_\_\_\_\_ No   
Emergency and First Aid Procedures:  
Eyes: Flush with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before reuse.  
Skin: Flush with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before reuse.  
Inhalation: Remove from exposure. Obtain medical attention immediately.  
Ingestion: If swallowed, drink promptly a large quantity of egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediate.  
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

## SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Ventilation: Mechanical (explosion proof): Recommended for control of dusts and vapors.  
Skin Protection: Use neoprene, rubber, or other chemical resistant gloves. Wear protective clothing to prevent repeated or prolonged exposure.  
Eye Protection: Wear splash-proof safety goggles.  
Respiratory Protection: In general, respirators are not needed if the product is used in a well-ventilated area. For mist or vapor, wear NIOSH approved respirator.  
Other Precautions: Always keep out of the reach of children. Other equipment should include impervious apron, eyewash facility, emergency shower, faceshield.  
Steps to be Taken if Material is Spilled or Released: Remove ignition sources. Wear respirator. Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained; the material then moved into containers and disposed of by approved methods for hazardous wastes.  
Waste Disposal: Incinerate. Comply with all local, state and federal regulations. Consult your state DNR or the EPA for specific questions. Wastewater should never enter a fresh water body without treatment.  
Handling and Storage: Store at room temperature. Keep from freezing. Store in original container.

## SECTION 8 – OTHER REGULATORY INFORMATION

Toxicity:  
Acute Oral LD<sub>50</sub>: male and female rats combined 0.809 g/kg body weight  
Acute Dermal: ND  
Primary Skin: Corrosive. Rabbits Tox. Category I for dermal effects  
Primary Eye: Corrosive. Rabbits Tox. Category I

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This MSDS data relates only to the material designated and does not relate to its use with any other material or process. The data is believed to be accurate. However, since use conditions vary and are outside our control, Stearns Packaging Corporation makes no warranties, expressed or implied, and assumes no liability for failure to follow directions and safety precautions.