

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **Mark E II** Formula ID Number: **SL-40**  
MSDS File Name: **MARK\_EII**  
Synonyms: **ST-756, ST-757, ST-758, ST-760, ST-2145, ST-2146** EPA REG #: **47371-129-3640**  
DOT Hazard Class: **None**  
Company: **Stearns Packaging Corporation** DOT Shipping Name: **Disinfectant, NOI, Liquid Item 57100, Sub 3, Class 60**  
PO Box 3216, 4200 Sycamore Ave.  
Madison, Wisconsin 53704 USDA Acceptance date & Category code: **9/25/90;**  
Phone: 800-655-5008 A4  
Fax: 608-246-5149

	Flammability	HAZARD RATING
1		
2	Health	
0	Reactivity	
None	Special Hazard	
		4 = Extreme 3 = High 2 = Moderate 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 INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	HAZARD	PEL(ppm)	TLV(ppm)	% (Optional)
n-Alkyl (C14- 50%, C12- 40%, C16- 10%)	8001-54-5	Irritant			
dimethyl benzyl ammonium chloride					
Didecyl dimethyl ammonium chloride	7173-51-5	Irritant			
Octyl dimethyl amine oxide	2605-78-9	Irritant			
Ethyl alcohol	64-17-5	Flammable	1000	1000	

SARA Section 313 Title III Notification Required: **No**

## SECTION 3 - PHYSICAL DATA

Appearance and Odor: **Light red liquid** Solubility in water: **Complete** Vapor Pressure (mm HG): **17.5** pH (Concentrate): **7.6-8.0**  
amine odor Boiling Point: **212°F** Vapor Density (Air = 1): **<1** pH (1% Solution): **ND**  
Melting Point: **NA** Evaporation Rate (Water = 0.3): **1** Specific Gravity: **1.002**

## SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: **Non-combustible, >200°F** Special Fire Fighting Procedures: **Use full protective clothing and self contained breathing apparatus.**  
Flammable Limits  
LEL: **NA** UEL: **NA** Unusual Fire & Explosion Hazards: **None**  
Extinguishing Media: **CO2, water, dry chemical**

## SECTION 5 - REACTIVITY DATA

Chemical Stability: Stable ☒ Unstable ☐ Hazardous Polymerization: May Occur ☐ Will not Occur ☒  
Conditions to Avoid: **Freezing and extreme heat** Conditions to Avoid: **None known**  
Incompatibility (Materials to Avoid): **None known** Hazardous Decomposition or By-products: **None known**

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

Health Hazards (Acute and Chronic): **Irritation of exposed tissues, especially eyes, skin, throat, nasal cavities and other mucous membranes.** Emergency and First Aid Procedures:  
Signs and Symptoms of Exposure: **Irritation of eyes and possibly upon direct prolonged contact with skin. Mists may irritate mucous membranes.** Eyes: **If contact occurs, flush with plenty of cool water for 15 minutes. Consult a physician.**  
Medical Conditions Aggravated by Exposure: **No data available** Skin: **May be irritating to skin. Flush with water and wear gloves in the future to minimize exposure. Wash hands thoroughly after handling. Discontinue use if irritation persists and consult a physician.**  
Carcinogenicity: **IARC Monographs? Yes ☐ No ☒** Inhalation: **Remove from exposure. Obtain medical attention immediately.**  
NTP? Yes ☐ No ☒ OSHA Regulated? Yes ☐ No ☒ Ingestion: **May be harmful if swallowed. If ingested, drink large amounts of water or milk. DO NOT induce vomiting. Get medical attention immediately. Avoid contamination of foods.**  
Physicians note: **No specific antidote. Use supportive care. Treatment should be based on physician's judgement in response to the patient's reaction.**

## SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respirator Protection: **In general, respirators are not needed if the product is used in a well-ventilated area.** Steps to be Taken if Material is Spilled or Released: **May be flushed with water. Material is biodegradable and may be flushed with water to sewer.**  
Protective Gloves: **Neoprene, rubber, or other chemical resistant gloves.** Waste Disposal: **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.**  
Eye Protection: **Avoid eye contact.** Handling and Storage: **Store at room temperature. Keep container closed when not in use. Do not mix with other chemicals or cleaning agents.**  
Protective Clothing and Equipment: **Wear protective clothing to prevent repeated or prolonged contact.** Other Precautions: **Keep out of the reach of children**  
Ventilation: Local Exhaust: **Recommended for control of dusts and vapors**  
Mechanical: **Recommended for control of dusts and vapors**

## SECTION 8 - OTHER REGULATORY INFORMATION

SARA Title III, Section 311/312: **N, N-Didecyl-N, N-dimethylammonium chloride 7173-51-5; N-Alkyl(C12-C16)-N, N-dimethyl-benzylammonium chloride 8001-54-5; Ethyl Alcohol 64-17-5**  
State Right-to-Know Regulations: **N-Nitrosodimethylamine 62-75-9 CA Benzyl Chloride 100-44-7 CA, MA Toluene 108-88-3 CA**  
**N,N-Didecyl-N, N dimethylammonium chloride 7173-51-5 NJ Ethyl Alcohol 64-17-5 MA, NJ, PA Benzene 71-43-2 CA, MA**  
**N-Alkyl(C12-C16)-N,N-dimethyl-benzylammonium chloride 8001-54-5 NJ Propylene Oxide 75-56-9 CA, MA rev. 7/21/97**

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.