

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT/MANUFACTURER'S IDENTITY

Product Name: Mark E II
 Synonyms: ST-756, ST-757, ST-758, ST-760, ST-2145, ST-2146
 Company: Stearns Packaging Corporation
 4200 Sycamore Avenue (53714)
 PO Box 3216
 Madison, WI 53704-0216
 Phone: 800-655-5008
 Fax: 608-246-5149

Formula ID Number: SL-40
 MSDS File Name: MARK E II
 EPA Reg #: 47371-129-3640
 DOT Hazard Class: None
 DOT Shipping Name: Disinfectant, NOI, Liquid Item
 57100, Sub 3, Class 60
 USDA Acceptance Date & Category Code: 9/25/90;
 A4

Concentrate		In Dilution	HAZARD RATING
1	Flammability	0	4 = Extreme
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 INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS NO.	HAZARD	PEL(ppm)	TLV(ppm)	% (Optional)	Other Limits
n-Alkyl (C14-50%, C12-40%, C16-10%) dimethyl benzyl ammonium chloride	8001-54-5	Irritant				
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:	Solubility in water: Complete Light red liquid, amine odor.	Vapor Pressure (mm Hg): 17.5	pH (Concentrate): 7.6-8.0
Flammability Limits	LEL: N.A. UEL: N.A.	Vapor Density (Air=1): < 1	pH (1% Solution): N.D.
Extinguishing Media:	CO ₂ , water, dry chemical	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: N.A. UEL: N.A.	Unusual Fire & Explosion Hazards:	None
Extinguishing Media:	CO ₂ , water, dry chemical		

SECTION 5 - REACTIVITY DATA

Chemical Stability:	Stable: <input checked="" type="checkbox"/> Unstable: _____	Hazardous Polymerization:	May Occur <input type="checkbox"/> Will Not Occur <input checked="" type="checkbox"/>
Conditions to Avoid:	Freezing and extreme heat		
Incompatibility (Materials to Avoid):	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.

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

NOTE TO PHYSICIAN: No specific antidote. Use supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Ventilation: Local Exhaust: Recommended for control of dusts and vapors.
 Mechanical: 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: Avoid eye contact.

Respirator Protection: In general, respirators are not needed if the product is used in a well-ventilated area.

Other Precautions: Always keep out of the reach of children.

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.

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.

Handling and Storage: Store at room temperature. Keep container closed. Do not mix with other chemicals or cleaning agents.

SECTION 8 - OTHER REGULATORY INFORMATION

SARA Title III, Sections 311/312, listed chemicals:

Immediate (Acute) Health Hazard:
 N,N-Didecyl-N, N dimethylammonium chloride 7173-51-5
 N-Alkyl(C12-C16)-N,N-dimethyl-benzylammonium chloride 8001-54-5
 Fire Hazard:
 Ethyl alcohol 64-17-5

State Right-to-Know Regulations:

N-Nitrosodimethylamine	62-75-9	CA
N,N-Didecyl-N, N dimethylammonium chloride	7173-51-5	NJ
N-Alkyl(C12-C16)-N,N-dimethyl-benzylammonium chloride	8001-54-5	NJ
Benzyl chloride	100-44-7	CA, MA
Ethyl alcohol	64-17-5	MA, NJ, PA
Propylene oxide	75-56-9	CA, MA
Toluene	108-88-3	CA
Benzene	71-43-2	CA, MA

rev. 06/30/00

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.

