

MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	LM-75 DISHMACHINE DETERGENT				
PRODUCT CODE	SEA 18075	MANUFACTURED FOR	Hillyard Inc.		
ISSUE DATE	04/25/01	STREET ADDRESS	9322 Baythorne Drive		
SUPERCEDES	03/21/01	CITY STATE ZIP	Houston, Texas 77041		
		PHONE	1-800-399-8489		

EMERGENCY TELEPHONE NUMBER
1-800-535-5053

SECTION 2 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS No.	<u>EXPOSURE LIMITS</u>			OTHER LIMITS
		OSHA PEL/TLV	ACGIH TLV	STEL	
Potassium Hydroxide	1310-58-3	2 mg/m ³	2 mg / m ³	NE	NA

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	Causes severe burn. Harmful if swallowed.
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POTENTIAL HEALTH EFFECTS	
INGESTION	Severe burns to oral and gastric mucus.
INHALATION	Severe burns to mucous membranes.
EYE CONTACT	Severe burns.
SKIN CONTACT	Severe burns.

SECTION 4 – FIRST AID MEASURES

INGESTION	Drink large quantities of milk or water. DO NOT INDUCE VOMITING. See a physician immediately.
INHALATION	If mists are produced or if respiratory irritation occurs, leave area and do not return until mists are dispersed. If irritation persists, see a doctor.
EYE CONTACT	Flush with water for 15 minutes. See a physician immediately.
SKIN CONTACT	Flush with large amounts of water. If irritation continues, see a physician.
NOTE TO PHYSICIAN	Treatment based on judgment of the physician in response to reactions of the patient.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT / METHOD	NA ° F NA	FLAMMABLE LIMITS	NA
% VOLATILE	NA		
EXTINGUISHING MEDIA	Water mist, dry chemical, CO2, alcohol foam.		
SPECIAL FIRE FIGHTING PROCEDURES	Firefighters should wear a self-contained breathing apparatus as in all chemical fires.		
FIRE AND EXPLOSION HAZARDS	Concentrate will react with aluminum or zinc.		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Stop leak. Dilute material spilled with diluted acetic acid (vinegar) to less than pH 10.
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SECTION 7 – HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wash hands before eating. Keep container tightly closed when not in use.
STORAGE PRECAUTIONS	Store in a dry, cool place.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTIONS

HYGIENIC PRACTICES	Normal procedures for good hygiene. Observe label precautions. Use personal protection equipment.
ENGINEERING CONTROLS	No special ventilation requirements. ** OR ** Use general mechanical ventilation to remove vapors at the source. Eyewash station is recommended. ** OR ** Use local exhaust to remove vapors at the source. Eyewash station recommended.

	RESPIRATOR	Not required
X	GOGGLES / FACE SHIELD	Required; goggles should be chemical splash type.
	APRON	Not required
X	GLOVES	Required; gloves should be PVC, Neoprene.
	BOOTS	Not required

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Slightly red clear liquid	BOILING POINT	220° F
ODOR	No apparent odor.	VAPOR PRESSURE	NA
pH	>13	VAPOR DENSITY	NA
SPECIFIC GRAVITY	1.28	EVAPORATION RATE (butyl acetate=1)	<1
SOLUBILITY IN WATER	Complete		

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	No special precautions beyond standard safe industrial practices.					
INCOMPATIBILITY	Strong acids					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Oxides of carbon.					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	None					

SECTION 11 – TOXICOLOGICAL INFORMATION**CARCINOGENICITY**

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910,Z

OTHER EFFECTS

ACUTE	Cause severe burns to skin, eyes, mucous membranes and gastric mucosa.
CHRONIC	None known
ORAL LD/50	Unknown

SECTION 12 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Flush diluted material to sewer.
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SECTION 13 – TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS	X		NOT HAZARDOUS	
DESCRIPTION	Corrosive liquid, n.o.s. (contains potassium hydroxide), 8, UN 1760, P.G. II.					
SEATEX HM CODE	170					

SECTION 14 – OTHER INFORMATION**HMS CLASSIFICATION**

2	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
ALK	WHITE	SPECIAL HAZARD

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by Seatex Corporation in connection with the use of this information.