

LAKELAND

CHEMICAL SPECIALTIES, INC.

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MATERIAL SAFETY DATA SHEET

DATE ISSUED 03/06

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: B-5440
CHEMICAL NAME: CYCLOHEXYLAMINE/MORPHOLINE/DIETHYLAMINOETHANOL/WATER
CHEMICAL FAMILY: INDUSTRIAL WATER TREATMENT/CORROSION INHIBITOR

SECTION 2: HAZARDOUS INGREDIENTS

MATERIAL	PERCENT	CAS#	CEILING	PEL
CYCLOHEXYLAMINE	20-30	108-91-8	10ppm	NONE
MORPHOLINE	5-10	110-91-8	20ppm	20ppm
			30 ppm STEL	
DIETHYLAMINOETHANOL	50	100-37-8	10ppm	10PPM (SKIN)

SECTION 3: PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT	212°	MELTING POINT:	NA
SOLUBILITY IN WATER	100%	VAPOR PRESSURE (mm Hg):	NA
pH	11.6	VAPOR DENSITY (AIR = 1):	NA
SPECIFIC GRAVITY	0.98	WATER REACTIVE:	NO
APPEARANCE/ODOR	CLEAR LIQUID AMMONIA ODOR	DOT SHIPPING NAME	CORROSIVE LIQUID. N.O.S (CYCLOHEXYLAMINE/MORPHOLINE/ DIETHYLAMINOETHANOL MIXTURE), 8, UN1760, PGII

SECTION 4 : FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 130° CLCP
EXTINGUISHER MEDIA: WATER, ALCOHOL FOAMS, CO₂, DRY CHEMICAL
SPECIAL FIRE FIGHTING PROCEDURES AVOID SKIN AND EYE CONTACT. WEAR HEAD AND BODY PROTECTION IF
EXPOSURE IS POSSIBLE. GUARD AGAINST AMMONIA TYPE VAPORS IF PRODUCT IS HEATED.

SECTION 5: REACTIVITY HAZARD DATA

STABILITY X STABLE UNSTABLE PRECAUTIONS NA

INCOMPATIBILITY (MATERIALS TO AVOID):

CONTACT WITH STRONG ACIDS AND OXIDIZERS MAY GIVE VIOLENT REACTION.

HAZARDOUS DECOMPOSITION PRODUCTS: WHEN BURNED: NH₄, CO₂, CO, HYDROCARBONS

HAZARDOUS POLYMERIZATION OCCURS X DOES NOT OCCUR

Section 6: HEALTH HAZARD DATA - PROTECTIVE MEASURES - FIRST AID

MOST LIKELY ROUTE OF ENTRY:

SKIN: STRONG IRRITANT. CAN CAUSE SKIN BURNS. ABSORPTION THROUGH SKIN MAY BE HARMFUL INTERNALLY. WEAR PROTECTIVE GLOVES AND COMPLETE BODY PROTECTION. PROVIDE CONVENIENT SAFETY SHOWERS. REMOVE CONTAMINATED CLOTHING. FLUSH SKIN THOROUGHLY WITH WATER FOR 15 MINUTES.

EYES: CAN CAUSES EYE BURNS. WEAR SPLASH-PROOF GOGGLES PROVIDE CONVENIENT EYE WASH STATION FLUSH IMMEDIATELY WITH WATER FOR ATLEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION.

INHALATION: BREATHING OF LIQUID OR MIST CAUSES IRRITATION AND POSSIBLE BURNS. VAPORS ARE IRRITATING. WEAR APPROVED LIQUID/MIST RESPIRATOR IF EXPOSURE IS LIKELY, WITH AMMONIA PROTECTION IF NEEDED FOR VAPORS. REMOVE TO FRESH AIR. GET PROMPT MEDICAL ATTENTION IF EFFECTS PERSISTS

INGESTION: CAUSES IRRITATION AND CAN BURN MEMBRANES. WEAR FACE SHIELD WHEN EXPOSURED IF NOT USING RESPIRATOR. AVOID SWALLOWING. RINSE MOUTH. DRINK LOTS OF WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IF EFFECT PERSISTS

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

IN THE EVENT OF SPILL OR RELEASE: REMOVE ALL IGNITION SOURCES, INCLUDING DOWNWIND. TAKE UP SMALL SPILLS WITH ABSORBENT. LARGER SPILLS SHOULD BE CONTAINED BY DIKING OR OTHERWISE AND COLLECTED FOR REUSE OR DISPOSAL. AVOID CONTACT WITH SKIN OR EYES. RESPONSE PERSONNEL SHOULD USE EYE AND SKIN PROTECTION AND RESPIRATORS FOR AMMONIA IF NEEDED.

PRECAUTIONS FOR HANDLING AND STORAGE: KEEP AWAY FROM HEAT AND IGNITION SOURCES. KEEP CONTAINER CLOSED. STORE IN CLOSED CONTAINER IN A DRY AND COOL AREA. DO NOT STORE NEAR ACIDS OR IN CONTACT WITH COPPER OR RUBBER.

WASTE DISPOSAL METHOD: CONSULT FEDERAL, STATE AND LOCAL AUTHORITIES FOR APPROVED DISPOSAL PROCEDURES. IS A RCRA HAZARDOUS WASTE (IGNITABLE CHARACTERISTIC)

EMPTY CONTAINERS: TRIPLE RINSE BEFORE HANDLING AND DISPOSAL

OTHER PRECAUTIONS: NONE

SECTION 8: HMIS RATINGS

<u>3</u>	HEALTH	<u>0</u>	REACTIVITY
<u>2</u>	FLAMMABILITY	<u>H</u>	PERSONAL PROTECTION

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