

LAKELAND

CHEMICAL SPECIALTIES, INC.

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MATERIAL SAFETY DATA SHEET

DATE ISSUED 06/06

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: B-5410
CHEMICAL NAME: CYCLOHEXYLAMINE/MORPHOLINE/WATER
CHEMICAL FAMILY: INDUSTRIAL WATER TREATMENT/CORROSION INHIBITOR

SECTION 2: HAZARDOUS INGREDIENTS

MATERIAL	PERCENT	CAS#	TLV	PEL
MORPHOLINE	<5	110-91-8	20ppm	20ppm 30ppm STEL
CYCLOHEXYLAMINE	<45	108-91-8	10ppm	10ppm

SECTION 3: PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT:	212°	MELTING POINT:	NA
SOLUBILITY IN WATER:	100%	VAPOR PRESSURE (mm Hg):	NA
Ph:	12	VAPOR DENSITY (AIR = 1):	NA
SPECIFIC GRAVITY:	0.96	WATER REACTIVE:	NO
APPEARANCE/ODOR:	CLEAR LIQUID AMMONIA ODOR	DOT SHIPPING NAME:	CORROSIVE LIQUID, N.O.S. (CYCLOHEXYLAMINE/MORPHOLINE MIXTURE) 8, UN1760, PGII

SECTION 4 : FIRE AND EXPLOSION HAZARD DATA

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

SECTION 5: REACTIVITY HAZARD DATA

STABILITY: X STABLE UNSTABLE PRECAUTIONS: NA
INCOMPATIBILITY (MATERIALS TO AVOID): CONTACT WITH STRONG OXIDIZERS MAY GIVE VIOLENT REACTION.
AVOID CONTACT WITH RUBBER OR COPPER.
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 CAUSES SKIN BURNS. ABSORPTION THOUGH SKIN MAY BE HARMFUL INTERNALLY
WEAR ALKLI-RESISTANT PROTECTIVE GLOVES AND, IF NECESSARY, 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 AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION.

INHALATION: BREATHING OF LIQUID OR MIST CAUSDES 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 PERSIST

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

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. DO NOT FLUSH DOWN SEWERS. 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.
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 REGULATIONS 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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