

# LAKELAND

## CHEMICAL SPECIALTIES, INC.

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### MATERIAL SAFETY DATA SHEET

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#### SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: B-5420  
CHEMICAL NAME: CYCLOHEXYLAMINE/MORPHOLINE/WATER  
CHEMICAL FAMILY: INDUSTRIAL WATER TREATMENT/CORROSION INHIBITOR

#### SECTION 2: HAZARDOUS INGREDIENTS

MATERIAL	PERCENT	CAS#	CEILING	PEL
MORPHOLINE	<12	110-91-8	20ppm	20ppm 30ppm(STEL)
CYCLOHEXYLAMINE	<12	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: 11 VAPOR DENSITY (AIR = 1): NA  
SPECIFIC GRAVITY: 0.98 WATER REACTIVE: NO  
APPEARANCE/ODOR: CLEAR LIQUID DOT SHIPPING NAME: CORROSIVE LIQUID, N.O.S.  
AMMONIA ODOR (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, CO<sub>2</sub>, 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: NH<sub>4</sub>, CO<sub>2</sub>, 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, POSSIBLE SENSITIZER, CAN CAUSES CORROSION.  
WEAR PROTECTIVE GLOVES AND, IF NECESSARY, COMPLETE BODY PROTECTION.  
PROVIDE CONVENIENT SAFETY SHOWERS. REMOVE CONTAMINATED CLOTHING.  
FLUSH SKIN THOROUGHLY WITH WATER FOR 15 MINUTES.

**EYES:** CORROSIVE . CAUSES BURNS AND POSSIBLE BLINDNESS  
WEAR SPLASH-PROOF GOGGLES.  
PROVIDE CONVENIENT EYE WASH STATION  
FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. GET PROMPT MEDICAL ATTENTION.

**INHALATION:** IRRITATANT.  
WEAR APPROVED AMMONIA-TYPE RESPIRATOR IF EXPOSURE IS LIKELY.  
REMOVE TO FRESH AIR. GET PROMPT MEDICAL ATTENTION IF EFFECTS PERSIST

**INGESTION:** MAY CAUSE NAUSEA.  
WEAR FACE SHIELD IF NEEDED.  
AVOID SWALLOWING.RINSE MOUTH. DRINK LOTS OF WATER.  
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. 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 CONTAINERCLOSED. DO NOT STORE NEAR ACIDS. PROVIDE VENTILATION.  
CHECK DAILY FOR ANY LEAKES FROM CONTAINERS, VESSELS, PUMPS AND PIPING, AND REMOVE AS NECESSARY

**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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