

# LAKELAND

## CHEMICAL SPECIALTIES, INC.

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### MATERIAL SAFETY DATA SHEET

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#### SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: T-4500  
CHEMICAL NAME: POLYMER/PHOSPHONATE/KOH/MOLYBDATE/WATER  
CHEMICAL FAMILY: INDUSTRIAL COOLING TOWER TREATMENT/CORROSION AND SCALE INHIBITOR

#### SECTION 2: HAZARDOUS INGREDIENTS

MATERIAL	PERCENT	CAS#	TLV	PEL
AMINOTRI (METHYLENE PHOSPHONIC ACID)	<3	6419-19-8	NA	NA
POTASSIUM HYDROXIDE SODIUM MOLYBDATE DIHYDRATE	6-7%	1310-58-3	2mg/m <sup>3</sup> C	NA
	1%	7631-95-0	.5mg/m <sup>3</sup> R as MO	

#### SECTION 3: PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: 212° MELTING POINT: NA  
SOLUBILITY IN WATER: 100% VAPOR PRESSURE (mm Hg): NA  
pH: 10-10.5 VAPOR DENSITY (AIR = 1): NA  
SPECIFIC GRAVITY: 1.1 WATER REACTIVE:  
APPEARANCE/ODOR: YELLOWISH, LIQUID NO ODOR  
DOT SHIPPING NAME: CORROSIVE LIQUID, N.O.S.  
(POTASSIUM HYDROXIDE), 8, UN1760, PGIII

#### SECTION 4 : FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): NONE  
EXTINGUISHER MEDIA: WATER, CO<sub>2</sub>, DRY CHEMICAL, FOAM  
SPECIAL FIRE FIGHTING PROCEDURES: AVOID SKIN AND EYE CONTACT. KEEP DRUMS THAT MAY BE EXPOSED TO FIRE  
COOL WITH WATER.

#### SECTION 5: REACTIVITY HAZARD DATA

STABILITY:  X  STABLE   UNSTABLE PRECAUTIONS:  NA   
INCOMPATIBILITY (MATERIALS TO AVOID): ALUMINUM, ZINC AND ACID  
HAZARDOUS DECOMPOSITION PRODUCTS: CO<sub>2</sub>, CO, PHOSPHINE, HYDROCARBONS. NOX  
HAZARDOUS POLYMERIZATION:   OCCURS  X  DOES NOT OCCUR

**SECTION 6: HEALTH HAZARD DATA - PROTECTIVE MEASURES - FIRST AID**

**MOST LIKELY ROUTE OF ENTRY:**

**SKIN:** IRRITANT. POSSIBLE SEVERE WITH PROLONGED EXPOSURE.  
WEAR ALKALI-RESISTANT PROTECTIVE GLOVES AND COMPLETE BODY PROTECTION.  
PROVIDE CONVENIENT SAFETY SHOWERS. REMOVE CONTAMINATED CLOTHES.  
FLUSH THOROUGHLY WITH WATER FOR 15 MINUTES.

**EYES:** IRRITANT. CAN CAUSE EYE DAMAGE.  
WEAR SPLASH-PROOF GOGGLES  
PROVIDE CONVENIENT EYE WASH STATION  
FLUSH IMMEDIATELY WITH WATER FOR 15 MINUTES.  
GET PROMPT MEDICAL ATTENTION IF EFFECTS PERSIST.

**INHALATION:** BREATHING OF MISTS OR LIQUID CAUSES SEVERE IRRITATION AND POSSIBLE BURNS  
WEAR APPROVED NIOSH RESPIRATOR IF EXPOSURE IS LIKELY  
REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF EFFECTS PERSIST

**INGESTION:** CAUSES IRRITATION.  
WEAR A FACE SHIELD IF NOT USING A RESPIRATOR.  
AVOID SWALLOWING. RINSE MOUTH. DRINK LOTS OF WATER  
DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IF EFFECTS PERSIST.

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

**IN THE EVENT OF SPILL OR RELEASE:** SMALL SPILLS CAN BE DILUTED DOWN TO NEUTRAL WITH MILD ACID  
AND FLUSHED TO SEWER OR GROUND WITH LARGE AMOUNTS OF WATER.  
LARGE SPILLS SHOULD BE DIKED AND HELD FOR COLLECTION, NEUTRALIZATION AND DISPOSAL OR REUSE.

**PRECAUTIONS FOR HANDLING AND STORAGE:** STORE IN A COOL AND DRY AREA AWAY FROM  
INCOMPATIBLE REACTIVE MATERIALS (I.E. ACIDS)

**WASTE DISPOSAL METHOD:** CONSULT FEDERAL, STATE AND LOCAL REGULATIONS FOR APPROVED DISPOSAL  
PROCEDURES.

**EMPTY CONTAINERS:** TRIPLE RINSE BEFORE HANDLING AND DISPOSAL

**OTHER PRECAUTIONS:** NONE

**SECTION 8: HMIS RATINGS**

<u>2</u>	HEALTH	<u>0</u>	REACTIVITY
<u>0</u>	FLAMMABILITY	<u>D</u>	PERSONAL PROTECTION

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