

# LAKELAND

## CHEMICAL SPECIALTIES, INC.

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### MATERIAL SAFETY DATA SHEET

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#### SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: T-4555  
CHEMICAL NAME: POLYMER/PHOSPHONATE/KOH/MOLYBDATE/WATER  
CHEMICAL FAMILY: INDUSTRIAL COOLING TOWER TREATMENT/CORROSION AND SCALE INHIBITOR

#### SECTION 2: HAZARDOUS INGREDIENTS

MATERIAL	PERCENT	CAS#	CEILING	PEL
AMINOTRI (METHYLENE PHOSPHONIC ACID			NA	NA
SODIUM MOLYBDATE DIHYDRATE	7%	7631-95-0	5mg/m <sup>3</sup> (AS MO)	
TOLYLTRIAZOLE	1%	29385-43-1	NA	NA
POTASSIUM HYDROXIDE	11%	1310-58-3	NA	2mg/m <sup>3</sup> (CEILING)

#### 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:	NO
APPEARANCE/ODOR	SLIGHT YELLOW, LIQ 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 MINUMTES.  
GET PROMPT MEDICAL ATTENTION IF EFFECTS PERSISTS.

**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 PERSISTS

**INGESTION:** CAUSES IRRITANTION.  
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 PERSISTS.

**SECTION 8: 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 DIKEDAND HELD FOR COLLECTION, NEUTRALIZATION AND  
DISPOSAL OR RE-USE

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

**WASTE DISPOSAL METHOD:** \_\_\_\_\_ CONSULT FEDERAL, STATE AND LOCAL AUTHORITIES 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>B</u>	PERSONAL PROTECTION

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