

LAKELAND

CHEMICAL SPECIALTIES, INC.

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MATERIAL SAFETY DATA SHEET

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SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: T-4400
CHEMICAL NAME: POLYMER/PHOSPHONATE/KOH/WATER
CHEMICAL FAMILY: INDUSTRIAL COOLING TOWER TREATMENT/CORROSION AND SCALE INHIBITOR

SECTION 2: HAZARDOUS INGREDIENTS

MATERIAL	PERCENT	CAS#	TLV	PEL
AMINOTRI (METHYLENE PHOSPHONIC ACID)		6419-19-8	NA	NA
POTASSIUM HYDROXIDE	6%	1310-58-3	2mg/m ³ C	NA

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:	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, CO₂, 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: CO₂, 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 IRRITANT.
WEAR 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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