



MATERIAL SAFETY DATA SHEET

KEM CANADA MFG.
4 BLAIR DRIVE
BRAMPTON, ONTARIO
L6T 2H5
TEL# (905) 456-9444

EMERGENCY # CANUTEC (613) 996-6666
"USE IN CASE OF CHEMICAL EMERGENCY ONLY"

W.H.M.I.S. CLASSIFICATION: E

MATERIAL REFERENCE NO: 722100

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: KT # 221	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: PHOSPHATES
CHEMICAL FORMULA: Na2O5S2	MOLECULAR WEIGHT: BLEND
SYNONYMS: TRISODIUM PHOSPHATE	
MATERIAL USE: HARD WATER SCALE INHIBITION	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV MG/M3	C.A.S. NUMBERS	LD 50 ORAL, RAT
TRISODIUM PHOSPHATE	60.0-100.0	5	7601-54-9	2000 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: GRANULE/POWDER		
ODOUR AND APPEARANCE: WHITE, GRANULAR-FREE-FLOWING POWDER; ODOURLESS		
ODOUR THRESHOLD (PPM)	SPECIFIC GRAVITY	VAPOUR PRESSURE (MM)
NOT AVAILABLE	1.62	NOT APPLICABLE
VAPOUR DENSITY (AIR=1)	EVAPORATION RATE	SOLUBILITY IN WATER
NOT APPLICABLE	NOT APPLICABLE	(20°C) SOLUBLE
BOILING POINT (C)	MELTING POINT (C)	% VOLATILE (BY WEIGHT)
NOT AVAILABLE	NOT AVAILABLE	0
pH (1.0% SOLUTION)	DENSITY (KG/M3)	COEF.OF WATER/OIL DISTR
11.5-12.5	NOT AVAILABLE	NOT AVAILABLE



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SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: NON-FLAMMABLE			
IF YES, UNDER WHICH CONDITIONS:			
MEANS OF EXTINCTION: DRY CHEMICALS, WATER SPRAY, CO2, ALCOHOL FOAM.			
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-			
CONTAINED BREATHING APPARATUS.			
FLASH POINT (C) AND METHOD: NONE			
HAZARDOUS COMBUSTION PRODUCTS: OXIDES OF SODIUM AND PHOSPHOROUS.			
UPPER EXPLOSION LIMIT LOWER EXPLOSION LIMIT AUTOIGNITION TEMP (C)			
NOT AVAILABLE NOT AVAILABLE NOT AVAILABLE			
EXPLOSION DATA SENSITIVITY RATE OF BURNING EXPLOSIVE POWER			
TO CHEMICAL IMPACT			
NOT AVAILABLE NOT AVAILABLE NOT AVAILABLE			
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE			

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE			
IF NO, UNDER WHICH CONDITIONS:			
INCOMPATIBILITY TO OTHER SUBSTANCES: YES			
IF SO, WHICH ONES: STRONG ACIDS.			
REACTIVITY AND UNDER WHAT CONDITIONS: SOLUTIONS ARE HIGHLY ALKALINE			
AND CAN REACT WITH ALUMINUM TO GIVE OFF FLAMMABLE HYDROGEN GAS.			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR			
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF SODIUM AND PHOSPHOROUS			

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:			
SKIN CONTACT: NO SKIN ABSORPTION: NO EYE CONTACT: YES			
INHALATION: YES INGESTION: YES			



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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:	
EYES-CONTACT CAN CAUSE SEVERE IRRITATION. CAN BE CORROSIVE TO EYES.	
MAY CAUSE CORNEAL INJURY.	
SKIN-CONTACT CAN CAUSE IRRITATION. MAY CAUSE REDNESS, PAIN, TISSUE	
INJURY. ALKALINE SOLUTIONS MAY CAUSE CAUSTIC BURNS.	
INHALATION-DUST CAN BE IRRITATING TO LUNGS AND RESPIRATORY TRACT.	
MAY CAUSE COUGHING, CHEST PAINS, DIFFICULTY IN BREATHING. EXPOSURE	
TO HIGH CONCENTRATIONS MAY RESULT IN DESTRUCTION OF MUCOUS MEMBRANES	
MAY CAUSE ASTHMATIC BRONCHITIS, CHEMICAL PNEUMONIA, PULMONARY EDEMA.	
INGESTION-MAY CAUSE IRRITATION OF DIGESTIVE TRACT, VOMITING, NAUSEA,	
DIARRHEA. MAY CAUSE MILD BURNING OF MOUTH, THROAT AND STOMACH. MAY	
CAUSE INJURY OF ESOPHAGUS AND DIGESTIVE TRACT.	

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL	



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-IMMEDIATELY FLUSH WITH RUNNING WATER FOR AT LEAST 15 MINUTES.
GET IMMEDIATE MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING. FLUSH AFFECTED AREA WITH RUNNING
WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF SYMPTOMS
PERSIST. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.
INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GET
IMMEDIATE MEDICAL ATTENTION.
INGESTION-DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN
UNCONSCIOUS OR CONVULSING PERSON. GET IMMEDIATE MEDICAL ATTENTION.

SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS

ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PG
NOT REGULATED			

HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH EYES, SKIN AND
CLOTHING. AVOID BREATHING DUST. HANDLE CAREFULLY TO PREVENT DUSTING.
WASH THOROUGHLY AFTER HANDLING.

STORAGE REQUIREMENTS: STORE IN A COOL, DRY, WELL-VENTILATED AREA
AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTENTS DRY.

SPECIAL SHIPPING INFORMATION: NONE

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	1	2

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
REVIEWED: OCTOBER 10, 2009

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