



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: NOT CONTROLLED
UNDER W.H.M.I.S.

MATERIAL REFERENCE NO: 125200

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: DYNAKEM	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ALKALINE BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: CLEANER DISINFECTANT	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 ORAL, RAT
SODIUM METASILICATE	5.0-10.0	10 MG/M3	6834-92-0	622 MG/KG
ETHYLENE DIAMINE	1.0-5.0	NOT AVAILABLE	64-02-8	NO DATA
TETRA ACETIC ACID	1.0-5.0	400	68391-01-5	0.55 ML/KG
QUATERNARY AMMONIUM COMPOUND	5.0-10.0	NOT AVAILABLE	68956-79-6	2500 MG/KG
NONYL PHENOL ETHOXYLATE	5.0-10.0	NOT AVAILABLE	9016-45-9	2500 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: BLUE GREEN CLEAR LIQUID, LIGHT PINE ODOUR.		
ODOUR THRESHOLD (PPM) NOT ESTABLISHED	SPECIFIC GRAVITY 1.055	VAPOUR PRESSURE (MM) 760 AT 100 (C)
VAPOUR DENSITY (AIR=1) GREATER THAN 1	EVAPORATION RATE (WATER=1) 1	SOLUBILITY IN WATER (20 ° C) COMPLETE
BOILING POINT (C) 100	FREEZING POINT (C) NOT ESTABLISHED	% VOLATILE (BY WEIGHT) 86
pH (10% SOLUTION) 12.0 - 12.5	DENSITY (G/ML) NOT APPLICABLE	COEF.OF WATER/OIL DISTR 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: WATER FOG, CHEMICAL FOAM, CO2			
SPECIAL PROCEDURES: COOL FIRE EXPOSED CONTAINERS WITH WATER.			
FLASH POINT (C) AND METHOD: MINIMUM 100 (C)			
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,			
NITROGEN, TOXIC FUMES.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP(C)	
NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
EXPLOSION DATA SENSITIVITY	RATE OF BURNING	EXPLOSIVE POWER	
TO CHEMICAL IMPACT			
NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
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, OXIDIZING AGENTS			
REACTIVITY AND UNDER WHAT CONDITIONS: NOT ESTABLISHED			
HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN			

SECTION VI - HEALTH HAZARD DATA

ROUTE OF ENTRY:			
SKIN CONTACT: YES	SKIN ABSORPTION: YES	EYE CONTACT: YES	
INHALATION: YES	INGESTION: YES		



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EFFECTS OF ACUTE EXPOSURE TO MATERIAL:
EYES-MAY CAUSE STINGING OR BURNING, INTENSE WATERING, CONJUNCTIVITIS
SKIN-MAY CAUSE TINGLING, ITCHING, INFLAMMATION.
INHALATION-MAY CAUSE IRRITATION OF NOSE, EYES AND THROAT, COUGHING.
INGESTION-MAY CAUSE IRRITATION AND BURNING OF LIPS, MOUTH AND
THROAT, PAIN IN SWALLOWING, GASTRO-INTESTINAL IRRITATION, ABUNDANT
SALIVATION, STOMACH CRAMPS, NAUSEA AND VOMITING, DIFFICULTY IN
BREATHING.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
EYES-MAY CAUSE BURNS AND DAMAGE TO MUCOUS MEMBRANES.

LD 50 OF MATL.	LC 50 OF MATL.	EXPOSURE LIMIT(S)	IRRITANCY OF MATL
NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE

SENSITIZATION OF MATERIAL	SYNERGISTIC MATERIALS
NOT AVAILABLE	NOT AVAILABLE

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY:
NONE KNOWN

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: RUBBER OR VINYL
RESPIRATORY: TO BE WORN BY PERSONS SENSITIVE TO FUMES.
EYE: FACE SHIELD OR SAFETY GOGGLES
FOOTWEAR: NO SPECIAL REQUIREMENTS
CLOTHING: NO SPECIAL REQUIREMENTS
OTHER: EYE WASH AND SAFETY SHOWER
ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): LOCAL
IS SUFFICIENT.

LEAK AND SPILL PROCEDURE: CONTAIN SPILL. TRANSFER TO APPROPRIATE
CONTAINER FOR RECLAIM OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO
INERT ABSORBENT AND SCOOP INTO DISPOSAL CONTAINER. FLUSH RESIDUAL
WITH VOLUMES OF WATER.

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND
LOCAL REGULATIONS.



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SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
SKIN-REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF PAIN PERSISTS CONTACT A PHYSICIAN LAUNDER CLOTHING BEFORE REUSE.
INHALATION-MOVE VICTIM TO FRESH AIR. GIVE OXYGEN IF BREATHING IS DIFFICULT. IF NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION AND THEN GIVE OXYGEN. CALL A PHYSICIAN.
INGESTION-DO NOT INDUCE VOMITING. DRINK MILK, EGG WHITES, GELATINE SOLUTION OR WATER. CALL A PHYSICIAN.
SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS
ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME NOT REGULATED	CLASS	UN NO.	PACKING GROUP
HANDLING PROCEDURES AND EQUIPMENT: AVOID CONTACT WITH STRONG ACIDS OR REACTIVE METALS. WASH THOROUGHLY AFTER HANDLING.			
STORAGE REQUIREMENTS: STORE IN TIGHTLY SEALED CONTAINERS IN A COOL, DRY PLACE.			
SPECIAL SHIPPING INFORMATION: NONE			

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY 0	REACTIVITY 0	HEALTH 2
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SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVIEWED: JUNE 14, 2003	

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