



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: D2B

MATERIAL REFERENCE NO: 582400

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: GLYCOL "P-100-N"	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: GLYCOLS
CHEMICAL FORMULA: CH ₃ CHOHCH ₂ OH	MOLECULAR WEIGHT: NOT APPLICABLE
SYNONYMS: NONE	
MATERIAL USE: ANTIFREEZE	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. % CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 RABBITS
PROPYLENE GLYCOL	100	NOT AVAILABLE	57-55-6	20000 MG/KG
SODIUM NITRITE	0.5-1.5	NO DATA	7632-00-0	180 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, COLOURLESS: MILD ODOUR.		
ODOUR THRESHOLD (PPM) NOT ESTABLISHED	SPECIFIC GRAVITY 1.003	VAPOUR PRESSURE (MMHG) 0.22
VAPOUR DENSITY (AIR=1) 2.62	EVAPORATION RATE 0.01	SOLUBILITY IN WATER (20 ° C) COMPLETE
BOILING POINT (C) 188	FREEZING POINT (C) NOT AVAILABLE	% VOLATILE (BY WEIGHT) 100
pH (10% SOLUTION) NOT AVAILABLE	DENSITY (G/ML) NOT APPLICABLE	COEF.OF WATER/OIL DISTR NOT AVAILABLE



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 582400

SECTION IV - FIRE AND EXPLOSION HAZARD OF MATERIAL

FLAMMABILITY: NON-FLAMMABLE			
IF YES, UNDER WHICH CONDITIONS:			
MEANS OF EXTINCTION: WATER FOG, ALCOHOL FOAM, DRY CHEMICAL, CO2			
SPECIAL PROCEDURES: AS FOR SURROUNDING MATERIALS			
FLASH POINT (C) AND METHOD: 107 (CLEVELAND OPEN CUP)			
HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE,			
VARIOUS HYDROCARBONS.			
UPPER EXPLOSION LIMIT	LOWER EXPLOSION LIMIT	AUTOIGNITION TEMP(C)	
2.6 %	12.6 %	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 OXIDIZING AGENTS.			
REACTIVITY AND UNDER WHAT CONDITIONS: NONE			
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.			
HAZARDOUS DECOMPOSITION PRODUCTS: PROPIONALDEYDE, CARBON MONOXIDE IN			
PRESENCE OF LIMITED OXYGEN IN FIRE SITUATION.			

SECTION VI - HEALTH HAZARD DATA

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



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 582400

EFFECTS OF ACUTE EXPOSURE TO MATERIAL:
EYES-CONTACT MAY CAUSE MINOR IRRITATION
SKIN-CONTACT MAY CAUSE MINOR IRRITATION
INHALATION-EXCESSIVE INHALATION OF VAPOURS MAY CAUSE NASAL AND
RESPIRATORY IRRITATION.
INGESTION-MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING,
DIARRHEA.

EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
NONE KNOWN

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

SENSITIZATION OF MATERIAL NOT AVAILABLE	SYNERGISTIC MATERIALS NOT AVAILABLE
--	--

CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY
NONE KNOWN.

SECTION VII - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES: NEOPRENE, NITRILE RUBBER IF REQUIRED
RESPIRATORY: NONE NORMALLY REQUIRED FOR NORMAL USE
EYE: SAFETY GLASSES
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: TRANSFER TO SUITABLE CONTAINER FOR RECLAIM
OR DISPOSAL. ABSORB REMAINING MATERIAL ONTO ABSORBENT AND SCOOP INTO
CONTAINER FOR DISPOSAL.

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



MATERIAL SAFETY DATA SHEET

MATERIAL REFERENCE NO: 582400

SECTION VIII - FIRST AID MEASURES

PROCEDURES:
EYES-FLUSH WITH RUNNING WATER FOR 15 MINUTES. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION.
SKIN-FLUSH WITH RUNNING WATER FOR 15 MINUTES. IF IRRITATION PERSISTS SEEK MEDICAL ATTENTION. RINSE AND WASH CONTAMINATED CLOTHING.
INGESTION-LOW IN TOXICITY. IF LARGE AMOUNTS ARE SWALLOWED, INDUCE VOMITING BY GIVING IPECAC SYRUP OR BY PLACING FINGER AT BACK OF THROAT. CONTACT A PHYSICIAN.
INHALATION-REMOVE TO FRESH AIR.
SOURCES USED: RAW MATERIAL SUPPLIER'S MATERIAL SAFETY DATA SHEETS
ADDITIONAL INFORMATION: NONE

SECTION IX - TDG SHIPPING INFORMATION

SHIPPING NAME	CLASS	UN NO.	PACKING GROUP
NOT-REGULATED			
HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL PROCEDURES. WASH THOROUGHLY AFTER HANDLING.			
STORAGE REQUIREMENTS: STORE IN A COOL DRY AREA. KEEP CONTAINER CLOSED WHEN NOT IN USE.			
SPECIAL SHIPPING INFORMATION: NONE			

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	0	1

SECTION XI - PREPARATION DATE OF MSDS

PREPARED BY: TECHNICAL DEPARTMENT	TELEPHONE # (905) 456-9444
REVIEWED: OCTOBER 10, 2003	

DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS COMPILED FROM SOURCES BELIEVED TO BE RELIABLE. THE MANNER AND CONDITIONS OF USE AND HANDLING MAY INVOLVE OTHER AND ADDITIONAL CONSIDERATIONS. WE ACCEPT NO RESPONSIBILITY FOR THE ACCURACY, SUFFICIENCY, RELIABILITY OR FOR ANY LOSS OR INJURY RESULTING FROM THE USE OF THE INFORMATION.