

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: D1A, E

MATERIAL REFERENCE NO: 146900

SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME/I.D.: INSTA-KLEEN	
CHEMICAL NAME: NOT APPLICABLE	CHEMICAL FAMILY: ACID BLEND
CHEMICAL FORMULA: MIXTURE	MOLECULAR WEIGHT: MIXTURE
SYNONYMS: NONE	
MATERIAL USE: ACID CLEANING COMPOUND	

SECTION II - HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROX. CONCENT.	TLV PPM	C.A.S. NUMBERS	LD 50 RAT, ORAL
HYDROCHLORIC ACID	10.0-30.0	5	7647-01-0	NO DATA
PHOSPHORIC ACID	1.0-5.0	1 MG/M3	7664-38-2	1530 MG/KG
ALCOHOL ETHOXYLATE	1.0-5.0	NO DATA	68131-39-5	4150 MG/KG

SECTION III - PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE: LIQUID		
ODOUR AND APPEARANCE: CLEAR, BROWN LIQUID, CINNAMON ODOUR		
ODOUR THRESHOLD (PPM) NOT AVAILABLE	SPECIFIC GRAVITY 1.042	VAPOUR PRESSURE (MM) NOT ESTABLISHED
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 AVAILABLE	% VOLATILE (BY WEIGHT) 92
pH (1.0% SOLUTION) 1.8	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: AS APPROPRIATE FOR SURROUNDING MATERIALS.	
SPECIAL PROCEDURES: WEAR FULL PROTECTIVE GEAR INCLUDING SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER. PROTECT AGAINST CORROSIVE LIQUIDS AND FUMES IF RELEASED.	
FLASH POINT (C) AND METHOD: NON-FLAMMABLE	
HAZARDOUS COMBUSTION PRODUCTS: MAY EVOLVE HYDROGEN CHLORIDE, CHLORINE, CARBON DIOXIDE, CARBON MONOXIDE. AN INTENSE FIRE MAY GIVE SMALL AMOUNT OF PHOSPHORIC OXIDES.	
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 AVAILABLE NOT APPLICABLE NOT AVAILABLE	
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE	

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY: STABLE	
IF NO, UNDER WHICH CONDITIONS:	
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.	
INCOMPATIBILITY TO OTHER SUBSTANCES: YES	
IF SO, WHICH ONES: STRONG OXIDIZERS, MINERAL ACIDS, STRONG BASES, AMINES, CARBONATES, CYANIDES, SUPHIDES, SULPHITES, FORMALDEHYDE, REDUCING AGENTS, MOST METALS.	
REACTIVITY AND UNDER WHAT CONDITIONS: CONTACT WITH SOME METALS MAY GENERATE FLAMMABLE HYDROGEN GAS WHICH MAY BE A LATENT EXPLOSION OR FIRE HAZARD. REACTS WITH ALKALIES TO LIBERATE HEAT.	
HAZARDOUS DECOMPOSITION PRODUCTS: MAY EVOLVE HYDROGEN CHLORIDE GAS AND CHLORINE AT HIGH TEMPERATURES.	

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:
|EYE CONTACT-EXTREMELY CORROSIVE. VAPOURS CAN CAUSE IRRITATION.
|CONTACT WITH LIQUID CAN CAUSE SEVERE IRRITATION, BURNS AND PERMANENT
|BLINDNESS.
|SKIN CONTACT-CORROSIVE. CAN CAUSE SEVERE IRRITATION, BURNS,
|PERMANENT SCARRING. REPEATED EXPOSURES TO VAPOURS MAY CAUSE REDNESS,
|IRRITATION AND BURNS.
|INHALATION-CAN CAUSE IRRITATION OF RESPIRATORY TRACT, CHEST PAIN
|COUGHING. MAY CAUSE ULCERATION OF NOSE AND THROAT. VAPOURS MAY CAUSE
|PULMONARY EDEMA. SYMPTOMS MAY BE DELAYED.
|INGESTION-CORROSIVE. CAN CAUSE SEVERE BURNING AND PAIN IN MOUTH,
|THROAT AND ABDOMEN; VOMITING, DIARRHEA, PERFORATION OF ESOPHAGUS AND
|STOMACH LINING.

|EFFECTS OF CHRONIC EXPOSURE TO MATERIAL:
|INHALATION-REPEATED OR PROLONGED EXPOSURE MAY CAUSE BRONCHOPNEUMONIA
|PULMONARY OEDEMA (FLUID BUILD-UP IN LUNGS).

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

|SENSITIZATION OF MATERIAL | SYNERGISTIC MATERIALS
| NOT AVAILABLE | NOT AVAILABLE

|CARCINOGENICITY, REPRODUCTIVE EFFECTS, TERATOGENICITY, MUTAGENICITY
|NO DATA AVAILABLE.

SECTION VII - PREVENTIVE MEASURES

|PERSONAL PROTECTIVE EQUIPMENT:

| GLOVES: NEOPRENE, NATURAL RUBBER, BUTYL RUBBER, NITRILE RUBBER
| RESPIRATORY: NIOSH/MSHA APPROVED RESPIRATOR WITH ACID GAS CARTIDGES
| IF AIRBORNE CONCENTRATIONS EXCEED OCCUPATIONAL
| EXPOSURE LIMITS.
| EYE: CHEMICAL GOGGLES AND FACE SHIELD
| FOOTWEAR: IMPERMEABLE
| CLOTHING: IMPERMEABLE.
| OTHER: EYE WASH AND SAFETY SHOWER.
| ENGINEERING CONTROLS (EG VENTILATION, ENCLOSED PROCESS): ADEQUATE
| LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURES WITHIN ACCEPTABLE
| LIMITS.

|LEAK AND SPILL PROCEDURE: WEAR RECOMMENDED PROTECTIVE EQUIPMENT.
|CONTAIN SPILL. TRANSFER TO SUITABLE CONTAINER FOR RECLAIM OR
|DISPOSAL. NEUTRALIZE RESIDUE WITH SODA ASH OR SODIUM CARBONATE.
|ABSORB ONTO INERT ABSORBANT AND SCOOP INTO CONTAINER FOR DISPOSAL.
|FLUSH AREA WITH VOLUMES OF WATER.

|WASTE DISPOSAL: DISPOSE ACCORDING TO LOCAL, PROVINCIAL AND FEDERAL
|REGULATIONS.

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SECTION VIII - FIRST AID MEASURES

| PROCEDURES:

| EYES-HOLD EYELIDS OPEN AND IMMEDIATELY FLUSH WITH RUNNING WATER FOR
| AT LEAST 30 MINUTES. GET IMMEDIATE MEDICAL ATTENTION AFTER FLUSHING.
| SKIN-REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND FLUSH WITH CLEAN
| WATER FOR AT LEAST 30 MINUTES. GET PROMPT MEDICAL ATTENTION.
| INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL
| RESPIRATION. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET IMMEDIATE
| MEDICAL ATTENTION.
| INGESTION-DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. RINSE
| MOUTH WITH WATER. DO NOT GIVE FLUIDS IF PERSON IS UNCONSCIOUS OR
| CONVULSING. 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.	PACKING GROUP
CORROSIVE LIQUIDS N.O.S. (HYDROCHLORIC ACID)	8	1760	II

| HANDLING PROCEDURES AND EQUIPMENT: PROTECT AGAINST CONTACT WITH EYES
| SKIN OR CLOTHING. HANDLE AND USE IN WELL-VENTILATED AREAS. WASH
| THOROUGHLY AFTER HANDLING.

| STORAGE REQUIREMENTS: STORE IN ORIGINAL CONTAINER AWAY FROM
| INCOMPATIBLE MATERIALS, DIRECT SUNLIGHT OR SOURCES OF HEAT. KEEP
| CONTAINER CLOSED WHEN NOT IN USE.

| SPECIAL SHIPPING INFORMATION: NON-HEATED

SECTION X - HMIS HAZARD RATING INFORMATION

FLAMMABILITY	REACTIVITY	HEALTH
0	2	3

SECTION XI - PREPARATION DATE OF MSDS

| PREPARED BY: TECHNICAL DEPARTMENT TELEPHONE # (905) 456-9444
| REVIEWED: OCTOBER 4, 2009

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