



KENCRO

CHEMICALS

PRODUCT : ACETIC ACID

SECTION 1 : PRODUCT INFORMATION

T.D.G. CLASSIFICATION	8 (3)
UN NUMBER	2789
PACKING GROUP	II
PRODUCT NAME	ACETIC ACID SOLUTION
WHMIS CLASSIFICATION	B.3, E
CHEMICAL FORMULA	CH ₃ COOH
MOLECULAR WEIGHT	60.05 (GLACIAL) MIXTURE (92%)
CHEMICAL FAMILY	N.A.V.
MATERIAL USE	SOLVENT

SECTION 2: HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	T.L.V.	C.A.S. #	LD/50,ROUTE,SPECIE	LC/50,ROUTE,SPECIE
ACETIC ACID	>80	10 ppm	64-19-7	4960 mg/KG ORAL,RAT	5620 ppm/ 1 HR INHALATION,MOUSE
WATER	BALANCE	N.A.V.	007732-18-5		

SECTION 3: PHYSICAL DATA

APPEARANCE	COLOURLESS
PHYSICAL STATE	LIQUID
ODOUR	PUNGENT
ODOUR THRESHOLD	0.48 ppm
VAPOUR PRESSURE (mmHg)	11.4 @ 20°C
VAPOUR DENSITY (AIR=1)	2.1
EVAPORATION RATE	0.97 (N-BUYTL ACETATE = 1)
BOILING POINT	118.1°C (GLACIAL 99.5%) 105.5°C (80%) 100.5°C (28%) 110.0°C (92%) 102.0°C (56%)
FREEZING POINT	15.6°C (GLACIAL 99.5%) -7°C (80%) -10°C (28%) 4°C (92%) -24°C (56%)
pH	STRONG ACID, N.A.V.
SPECIFIC GRAVITY (WATER=1)	1.055
SOLUBILITY IN WATER (% W/W)	COMPLETE
COEFFICIENT OF WATER/OIL DIST.	N.A.V.

SECTION 4 : FIRE AND EXPLOSION DATA

FLAMMABILITY	COMBUSTIBLE
IF YES, UNDER WHICH CONDITIONS?	KEEP AWAY FROM HEAT AND FLAME
EXTINGUISHING MEDIA	WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR "ALCOHOL" FOAM
SPECIAL PROCEDURES	WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL
FLASH POINT(C), METHOD	39°C BY TAG CLOSED CUP
AUTO IGNITION TEMPERATURE	5.16°C BY ASTM
UPPER FLAMMABLE LIMIT (UFL)	19.3

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(% BY VOL)	
LOWER FLAMMABLE LIMIT (LFL)	6.6
(% BY VOL)	
HAZARDOUS COMBUSTION PRODUCTS	CARBON DIOXIDE, CARBON MONOXIDE
EXPLOSION DATA	
SENSITIVITY TO STATIC DISCHARGE	N.AV.
SENSITIVITY TO IMPACT	INSENSITIVE
RATE OF BURNING	N.AV.
EXPLOSIVE POWER	POWDERED MATERIAL MAY FORM EXPLOSIVE DUST-AIR MIXTURES

SECTION 5 : REACTIVITY DATA

CHEMICAL STABILITY	
YES	STABLE UNDER NORMAL CONDITIONS
NO, WHICH CONDITIONS?	FLAMMABLE UNDER FIRE CONDITIONS
COMPATIBILITY WITH OTHER SUBSTANCES:	
YES	
NO, WHICH ONES?	MATERIAL CAN REACT WITH BASES, OXIDIZERS REACTS VIOLENTLY WITH STRONG OXIDIZING AGENTS. METALS, AMINES
REACTIVITY CONDITIONS	CONTACT WITH INCOMPATIBLES LISTED ABOVE
HAZARDOUS POLYMERIZATION	WILL NOT OCCUR
CONDITIONS TO AVOID	KEEP AWAY FROM HEAT AND FLAME
HAZARDOUS PRODUCTS OF DECOMPOSITION	CARBON DIOXIDE, CARBON MONOXIDE

SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY	
SKIN CONTACT	MAY CAUSE SEVERE BURNS, PAIN AND BROWNISH OR YELLOWISH STAINS. PROLONGED OR REPEATED EXPOSURE TO DILUTE SOLUTIONS MAY CAUSE IRRITATION AND DERMATITIS
SKIN ABSORPTION	N.AV.
EYE CONTACT	MAY CAUSE SEVERE IRRITATION, CORNEAL BURNS AND CONJUNCTIVITIS, POSSIBLE CORNEAL DAMAGE
INHALATION	INHALATION OF MISTS OR VAPOURS MAY CAUSE SEVERE IRRITATION OF EYES, NOSE AND THROAT, COUGHING, CHOKING AND DIFFICULTY IN BREATHING. SEVERE OVER EXPOSURE MAY RESULT IN DELAYED PULMONARY EDEMA WHICH CAN BE FATAL. PROLONGED OR REPEATED EXPOSURE MAY CAUSE DISCOLORATION AND EROSION OF TEETH.
INHALATION, CHRONIC INGESTION	N.AV. MAY CAUSE SEVERE BURNING PAIN IN THE MOUTH, THROAT, AND ABDOMEN. VOMITING , DIARRHEA AND PERFORATION OF THE OESOPHAGUS OR STOMACH MAY OCCUR
EFFECTS OF ACUTE EXPOSURE	REFER TO ROUTE OF ENTRY
EFFECTS OF CHRONIC EXPOSURE	SEE ABOVE
LD 50 MATERIAL, SPECIES & ROUTE	SEE SECTION II
LC 50 MATERIAL, SPECIES & ROUTE	SEE SECTION II
EXPOSURE LIMIT OF MATERIAL	SEE SECTION II
IRRITANCY OF MATERIAL	SEVERE
SENSITIZING CAPABILITY OF MATERIAL	N.AV.
CARCINOGENICITY OF MATERIAL	IARC - NOT LISTED; NTP - NOT LISTED; OSHA - NOT LISTED; ACGIH - NOT LISTED
REPRODUCTIVE EFFECTS	N.AV.
SYNERGISTIC MATERIALS	N.AV.

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SECTION 7 : PREVENTATIVE MEASURES

GLOVES/TYPE	NEOPRENE OR PVC GLOVES
RESPIRATORY/TYPE	APPROVED FULL-FACE AIR-PURIFYING RESPIRATOR EQUIPPED WITH ORGANIC VAPOUR CARTRIDGES FOR CONCENTRATION UP TO 500 ppm. AIR SUPPLIED RESPIRATOR IF CONCENTRATIONS ARE HIGHER OR UNKNOWN
EYE/TYPE.	TIGHT FITTING CHEMICAL GOGGLES AND FACE SHIELD
FOOTWEAR/TYPE	WEAR IMPERMEABLE BOOTS
CLOTHING /TYPE	WEAR AN IMPERMEABLE APRON OR SMOCK
OTHER/TYPE	SAFETY SHOWERS AND EYE WASH FOUNTAINS MUST BE INSTALLED IN STORAGE AND HANDLING AREAS
ENGINEERING CONTROLS	USE PROCESS ENCLOSURE, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO MAINTAIN AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS
LEAK/SPILL	ELIMINATE ALL SOURCES OF IGNITION. STOP OR REDUCE LEAK IF SAFE TO DO SO, VENTILATE AREA. SMALL QUANTITIES MAY BE FLUSHED WITH COPIOUS QUANTITIES OF WATER OR COLLECTED WITH ABSORBENT MATERIALS. IN CASE OF LARGER AMOUNTS CONTAIN LIQUID WITHIN DYKE OF INERT MATERIAL (SAND, ASH, ETC.) FOR RECOVERY OR NEUTRALIZATION. NEUTRALIZATION OF MATERIAL MAY BE ACCOMPLISHED WITH SODA ASH, DILUTE CAUSTIC SODA OR LIME. ONLY TRAINED AND PROPERLY PROTECTED PERSONNEL SHOULD BE INVOLVED IN SPILL CLEAN-UP OPERATIONS.
WASTE DISPOSAL	DISPOSAL OF ACETIC ACID MUST MEET ALL LOCAL, PROVINCIAL AND FEDERAL REGULATIONS.
HANDLING PROCEDURES AND EQUIPMENT	KEEP FROM CONTACT WITH OXIDIZING MATERIALS. KEEP CONTAINER CLOSED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED. AVOID ALL CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPOURS. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP AWAY FROM INCOMPATIBLES.
STORAGE NEEDS	STORE AWAY FROM OXIDIZING MATERIALS AND ALL SOURCES OF IGNITION. KEEP CONTAINER CLOSED WHEN NOT IN USE.
SPECIAL SHIPPING INSTRUCTIONS	SEE SECTION 1 T.D.G. CLASSIFICATION

SECTION 8 : FIRST AID MEASURES

INSTRUCTIONS

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH FLOWING WATER FOR A MINIMUM OF 30 MINUTES. HOLD EYELIDS OPEN DURING FLUSHING. IF IRRITATION PERSISTS, REPEAT FLUSHING. OBTAIN MEDICAL ATTENTION IMMEDIATELY. DO NOT TRANSPORT VICTIM UNTIL THE RECOMMENDED FLUSHING PERIOD IS COMPLETED UNLESS FLUSHING CAN BE CONTINUED DURING TRANSPORT.

SKIN CONTACT: FLUSH SKIN WITH RUNNING WATER FOR A MINIMUM OF 30 MINUTES. START FLUSHING WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION PERSISTS, REPEAT FLUSHING. OBTAIN MEDICAL ATTENTION IMMEDIATELY. DO NOT TRANSPORT VICTIM UNTIL THE RECOMMENDED FLUSHING PERIOD IS COMPLETED UNLESS FLUSHING CAN BE CONTINUED DURING TRANSPORT.

INGESTION: CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING. GIVE THE VICTIM A GLASS OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

INHALATION: REMOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION

SECTION 9 : PREPARATION INFORMATION

EMERGENCY PHONE NO	(613) 996 6666 (CANUTEC)
PREPARED BY	KENCRO CHEMICALS LIMITED
	(905) 827 4133
DATE	JUNE 2008

PRODUCT : ACETIC ACID

LEGEND:

ACGIH	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
CAS #	CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER
IARC	INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
LFL	LOWER FLAMMABLE LIMIT
N.AP	NOT APPLICABLE
N.AV	NOT AVAILABLE
NIOSH	NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH
NTP	NATIONAL TOXICOLOGY PROGRAM
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
T.D.G.	TRANSPORTATION OF DANGEROUS GOODS ACT/REGULATIONS
TLV	THRESHOLD LIMIT VALUE
UFL	UPPER FLAMMABLE LIMIT
WHMIS	WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM

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