MATERIAL SAFETY DATA SHEET SECTION I – MATERIAL IDENTIFICATION AND USE MATERIAL NAME: CLEAR-LINE LIQUID DRAIN OPENER

MANUFACTURERS NAME:

CHEMICAL NAME

MOLECULAR WEIGHT

Sulfuric Acid

98.1

CP INDUSTRIES LTD. PO BOX 300, 535 DICKSON DR., FERGUS, ONTARIO N1M 2W8 **EMERGENCY TELEPHONE NUMBER:** (613) 996-66666 Non-Office Hours, Weekends, or Holidays – (CANUTEC) Call Collect

SUPPLIERS NAME:

CP INDUSTRIES LTD. PO BOX 300, 535 DICKSON DR., FERGUS, ONTARIO N1M 2W8 EMERGENCY TELEPHONE NUMBER: (613) 996-6666 Non-Office Hours, Weekends, or Holidays – (CANUTEC) Call Collect

CHEMICAL FAMILY Mineral Acid TRADE NAME AND SYNONYMS None **CHEMICAL FORMULA** H₂SO₄ **MATERIAL USE** Drain Opener WHMIS CLASS D1A E

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION %	C.A.S.N.A.	"EXPOSURE LIMITS"	LD50/LC50 SPECIFY SPECIES & ROUTE	
Sulphuric acid	90-100	7664-93-9	TLV-TWA (ACGIH) (1987-1988) 1 mg/m ³ PEL (OSHA) 1 mg/m ³	LD50 2140 mg/kg (oral/rat) LC50 510 mg/m ³ /2 hrs	
SECTION III – PHYSICAL DATA FOR MATERIAL					
	SECTION III	- PHYSICAL DATA	FOR MATERIAL		
PHYSICAL STATE	SECTION III ODOUR AND APPI	– PHYSICAL DATA EARANCE	A FOR MATERIAL ODOUR THRESHOLD	• SPECIFIC GRAVITY	
PHYSICAL STATE GAS LIQUID X SOLID	SECTION III ODOUR AND APPI Clear red liquid, pung	– PHYSICAL DATA EARANCE gent odor	A FOR MATERIAL ODOUR THRESHOLD Not Available	SPECIFIC GRAVITY 1.83	
PHYSICAL STATE GAS LIQUID X SOLID VAPOUR PRESSURE (mm)	SECTION III ODOUR AND APPI Clear red liquid, pung VAPOUR DENSITY	- PHYSICAL DATA EARANCE gent odor ((Air=1)	A FOR MATERIAL ODOUR THRESHOLD Not Available EVAPORATION RATI	 SPECIFIC GRAVITY 1.83 BOILING POINT (°C) 	
PHYSICAL STATE GAS LIQUID X SOLID VAPOUR PRESSURE (mm) 0.0016mm Hg @ 40°C	SECTION III ODOUR AND APPI Clear red liquid, pung VAPOUR DENSITY 3.4	- PHYSICAL DATA EARANCE gent odor 7 (Air=1)	A FOR MATERIAL ODOUR THRESHOLD Not Available EVAPORATION RATI Not Available	 SPECIFIC GRAVITY 1.83 BOILING POINT (°C) 276°C 	
PHYSICAL STATE GAS LIQUID X SOLID VAPOUR PRESSURE (mm) 0.0016mm Hg @ 40°C FREEZING POINT (°C)	SECTION III ODOUR AND APPI Clear red liquid, pung VAPOUR DENSITY 3.4 SOLUBILITY IN W	- PHYSICAL DATA EARANCE gent odor 7 (Air=1) 7ATER	A FOR MATERIAL ODOUR THRESHOLD Not Available EVAPORATION RATI Not Available % VOLATILE (by volu	 SPECIFIC GRAVITY 1.83 BOILING POINT (°C)	

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Available

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY IF YES	, UNDER WHAT CONDITIONS	3			
YES NO X					
MEANS OF EXTINCTION:	As for surrounding fire. Use water carefully.				
SPECIAL PROCEDURES:	Not flammable but highly reactive: capable of igniting finely divided combustible materials on				
contact. Use water on combustibles hurning in vicinity of this material but use care: water					
contact. Use water on computations of the standard and the standard but use calle, which					
applied directly will cause evolution of heat and spattering. Full protective acid resistant					
	equipment including a self -contai	ned breathing apparatus should be worn.			
FLASHPOINT (°C) AND METH	HOD : Not Applicable AUTO	IGNITION TEMPERATURE (°C): Not Applicable			
UPPER EXPLOSION LIMIT (% BY VOLUME): Not Applicable					
LOWER EXPLOSION LIMIT (% BY VOLUME): Not Applicable					
HAZARDOUS COMBUSTION	PRODUCTS: Toxic gases and var	bors (SO ₂ , SO ₃ , Sulfuric Acid mist).			
EXPLOSION DATA SENSITIV	ITY TO MECHANICAL IMPAC	CT: Not Applicable			
RATE OF BURNING	EXPLOSIVE POWER	SENSITIVITY TO STATIC DISCHARGE			
Not Applicable	Not Available	None			
II					
SECTION V – REACTIVITY DATA					
CHEMICAL STABILITY	IF NO. UNDER WHAT COND	ITIONS?			

YES X NO	
INCOMPATIBLILTY TO OTHER SUBSTANCES	IF SO, WHICH ONES?
YES X NO	Combustible materials; carbides, chlorate, fulminates, nitrates,
	picrates, powdered metals, acids, bleach.
REACTIVITY AND UNDER WHAT CONDITIONS:	Contact with water or bases will generate heat, and vapors. Contact
	with organic materials (such as chlorates, carbides, fulminates, picrates)
	may cause fire and explosion. Contact with soft metals may
	produce flammable hydrogen gas. Contact with bleach generates toxic
	gas (chlorine).
HAZARDOUS DECOMPOSITION PRODUCTS:	See above

MATERIAL NAME: CLEAR-LINE LIQUID DRAIN OPENER					
SECTION VI – TOXICOLOGICAL PROPERTIES OF PRODUCT					
ROUTE OF ENTRY					
SKIN CONTACT:	X	SKIN ABSORPTION:	EYE CONTACT: X		
INHALATION ACUTE:	X	NHALATION CHRONIC: X	INGESTION: X		
EFFECTS OF ACUTE EXPOSU	RE TO PRODUC	Т			
EYE: CORROSIVE. Im	mediate pain, seve	- re burns and permanent corneal	damage which may result in blindness.		
SKIN: CORROSIVE M	av cause pain and s	evere burns to the skin and brox	vnish or vellow stains		
INHALATION. Mists and vapours	may cause severe	irritation of the eyes nose and t	respiratory tract		
INGESTION CORROSIVE M	av cause severe hu	rning and pain in the mouth thr	bat and abdomen Vomiting diarrhea		
and perforation of	the aesonbagus ar	d stomach lining may occur	at and abdoment. Vonnting, diarmed		
FFFECTS OF CHRONIC EXPO	SURF TO PROD	UCT : Prolonged or repeated exi	posure to dilute solutions may cause irritation		
redness pain and drying and cracki	ng of skin Prolon	ged or repeated exposure to mis	ts and vapours may result in impaired lung		
function and possible discolouration	and arosion of tag	th	is and vapours may result in imparted rung		
I D50 OF DDOLLCT (SDECIEV)		III. ITE) IDDITANCV OF DDOI	NICT EVDASUDE I IMITS AF DDADUCT		
2140 mg/kg (oral/rat)	SFECIES & NUC	(IE) IRRITAINCT OF FROM	TLV TWA (ACC1H) (1087 1089) 1 mg/m ³		
2140 mg/kg (orai/fat)		finging initiating	$DEL (OSHA) 1 mg/m^3$		
LC50 OF DDODUCT (SDECIEV)		σενισιτιζά τισνι το αθορι	ICT SVNEDCISTIC MATERIALS		
$510 \text{ mg/m}^3 2 \text{ hrs} (inhelation/rat)$	SFECIES)	None Known	None Known		
CAPCINOCENICITY, Although	there are reported	inking exposure to sulphuric esi	d to concer this product is not clossified by		
VARCINOGENICIII: Aluiougu NTD(Nat	i mere are reports i	Program) not regulated as agree	a to cancel, this product is not classified by		
Hoalth A	dministration) and	has not been evaluated by IAP	C(International A gangy for Descarch on Cancer)		
	ullillisuation), and	range of Covernmental Industri	al Hugionista)		
OTHED TOYIC FEFECTS.	IAPC has alassific	d "accupational exposure to str	ai frygicilisis).		
UTHER TOAIC EFFECTS:	and" as being our	in occupational exposure to suc	of entry is inhelation of these mists resulting in		
		There is no said and that the	of end y is initiation of these finists resulting in		
DEDDODUCTIVE FFFFORS	TED A TOCENIC	There is no evidence that the	nquiù is in any way a carcinogen.		
KEPRODUCTIVE EFFECTS	IEKAIUGENIU Natarailahla	III MUIAGENICIII			
Not available	Not available	Not available			
SECTION VII – PREVENTATIVE MEASURES					
PERSONAL PROTECTIVE FOI	IPMENT				
GLOVES	RESPIRATORY	(SPECIFY)	EYE (SPECIFY)		
PVC or Neoprene	NIOSH/MSHA an	proved respirator	Chemical Googles		
FOOTWEAR (SPECIFY)	СГОТН	NG (SPECIEV)	OTHER (SPECIEV)		
Rubber	Acid resig	stant	Acid resistant aprons and face shield		
FNCINFFRINC CONTROLS (F	G VENTILATIO	N FNCI OSFD PROCESS (SPECIFV : Local exhaust to maintain		
ENGINEERING CONTROLD (E		vapour concentration below exp	Sure limits		
I FAK AND SPILL PROCEDUR	F• 1	Parove all ignition sources. Ve	ntilate area. Do not allow the spilled product		
LEAK AND SPILL PROCEDURE: Remove an ignition sources. Ventilate area. Do not anow the spined product					
to go to drain. Dike with inert material (sand, earth). Collect into containers for					
WASTE DISDOSAL	disposal. Disposa of occording to least survivated and fordered resulting.				
TAGIE DIGI UGAL.	ASTE DISPOSAL: Dispose of according to local, provincial, and federal regulations.		using ally reaction regulations.		
HANDLING PROUEDURES & EQUIPMENT: Always add acid to water cautiously. Always wear protective equipment.			asiy. An ways wear protective equipment.		
SIOKAGE KEQUIKEMENIS: Store in a cool, dry well ventilated area away from combustibles, oxidizers,			eu area away from combustibles, oxidizers,		
OPECIAL CHIPPING DECODA		bases, metanic powders, acids an	iu bleach.		
SPECIAL SHIPPING INFORMA	110N: 1	NOT Applicable.			

SECTION VIII – FIRST AID PROCEDURES

SKIN:	Flush with water for at least 30 minutes; if irritation persists, repeat flushing. Seek medical attention
	immediately.
EYE:	Immediately flush eyes and under eyelids with running water for at lease 30 minutes. If irritation persists,
	repeat flushing. Seek medical attention immediately.
INHALATION:	Remove patient to fresh air. If not breathing give artificial respiration. Keep warm and quiet. Seek
	medical attention immediately.
INGESTION:	Seek medical attention immediately. Drink lots of water or milk. Do not induce vomiting, but if patient
	vomits give him/her more water. Do not give anything by mouth to an unconscious patient. Immediately
	transport victim to emergency facility.
GENERAL ADVICE:	Safety shower and eyewash must be readily available.

SECTION IX – PREPARATION DATE OF MSDS

ADDITIONAL INFORMATION/COMMENTS: None SOURCES USED: Supplier MSDS **PREPARED BY:** CP INDUSTRIES LTD.