

(10205)

MATERIAL SAFETY DATA SHEET
SECTION I - MATERIAL IDENTIFICATION AND USE

MATERIAL NAME: CLEAR-LINE LIQUID DRAIN OPENER

MANUFACTURERS NAME:
CP INDUSTRIES LTD.
PO BOX 300, 535 DICKSON DR.,
FERGUS, ONTARIO N1M 2W8

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

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CHEMICAL NAME Sulfuric Acid	CHEMICAL FAMILY Mineral Acid	CHEMICAL FORMULA H ₂ SO ₄	WHMIS CLASS D1A E
MOLECULAR WEIGHT 98.1	TRADE NAME AND SYNONYMS None	MATERIAL USE Drain Opener	

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

PHYSICAL STATE GAS LIQUID X SOLID	ODOUR AND APPEARANCE Clear red liquid, pungent odor	ODOUR THRESHOLD Not Available	SPECIFIC GRAVITY 1.83
VAPOUR PRESSURE (mm) 0.0016mm Hg @ 40°C	VAPOUR DENSITY (Air=1) 3.4	EVAPORATION RATE Not Available	BOILING POINT (°C) 276°C
FREEZING POINT (°C) -29.5°C	SOLUBILITY IN WATER Soluble	% VOLATILE (by volume) 5% (Approx.)	pH ←
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Available			

SECTION IV - FIRE AND EXPLOSION DATA

FLAMMABILITY IF YES, UNDER WHAT CONDITIONS

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 burning in vicinity of this material but use care; water applied directly will cause evolution of heat and spattering. Full protective acid resistant equipment including a self-contained breathing apparatus should be worn.

FLASHPOINT (°C) AND METHOD: 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 vapors (SO₂, SO₃, Sulfuric Acid mist).

EXPLOSION DATA SENSITIVITY TO MECHANICAL IMPACT: Not Applicable

RATE OF BURNING

Not Applicable

EXPLOSIVE POWER

Not Available

SENSITIVITY TO STATIC DISCHARGE

None

SECTION V - REACTIVITY DATA

CHEMICAL STABILITY

YES X NO

IF NO, UNDER WHAT CONDITIONS?

INCOMPATIBILITY TO OTHER SUBSTANCES

YES X NO

IF SO, WHICH ONES?

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

APPROVED MATERIAL

FEB 07 2013

MSDS # 10205

APPROVED BY *[Signature]*

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	INHALATION CHRONIC: X	INGESTION: X

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

EYE: CORROSIVE. Immediate pain, severe burns and permanent corneal damage which may result in blindness.
SKIN: CORROSIVE. May cause pain and severe burns to the skin and brownish or yellow stains.
INHALATION: Mists and vapours may cause severe irritation of the eyes, nose and respiratory tract.
INGESTION: CORROSIVE. May cause severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Prolonged or repeated exposure to dilute solutions may cause irritation, redness, pain, and drying and cracking of skin. Prolonged or repeated exposure to mists and vapours may result in impaired lung function and possible discoloration and erosion of teeth.

LD50 OF PRODUCT (SPECIFY SPECIES & ROUTE) 2140 mg/kg (oral/rat)	IRRITANCY OF PRODUCT Highly irritating	EXPOSURE LIMITS OF PRODUCT TLV-TWA (ACGIH) (1987-1988) 1mg/m ³ PEL (OSHA) 1 mg/m ³
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LC50 OF PRODUCT (SPECIFY SPECIES) 510 mg/m ³ 2 hrs (inhalation/rat)	SENSITIZATION TO PRODUCT None Known	SYNERGISTIC MATERIALS None Known
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CARCINOGENICITY: Although there are reports linking exposure to sulphuric acid to cancer, this product is not classified by NTP(National Toxicology Program), not regulated as carcinogenic by OSHA(Occupational Safety and Health Administration), and has not been evaluated by IARC(International Agency for Research on Cancer) or ACGIH(American Conference of Governmental Industrial Hygienists).

OTHER TOXIC EFFECTS: IARC has classified "occupational exposure to strong inorganic acid mists containing sulphuric acid" as being carcinogenic to humans. The route of entry is inhalation of these mists resulting in respiratory cancers. There is no evidence that the liquid is in any way a carcinogen.

REPRODUCTIVE EFFECTS Not available	TERATOGENICITY Not available	MUTAGENICITY Not available
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SECTION VII – PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES PVC or Neoprene	RESPIRATORY (SPECIFY) NIOSH/MSHA approved respirator	EYE (SPECIFY) Chemical Goggles
FOOTWEAR (SPECIFY) Rubber	CLOTHING (SPECIFY) Acid resistant	OTHER (SPECIFY) Acid resistant aprons and face shield

ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS, (SPECIFY): Local exhaust to maintain vapour concentration below exposure limits.

LEAK AND SPILL PROCEDURE: Remove all ignition sources. Ventilate area. Do not allow the spilled product to go to drain. Dike with inert material (sand, earth). Collect into containers for disposal.

WASTE DISPOSAL: Dispose of according to local, provincial, and federal regulations.

HANDLING PROCEDURES & EQUIPMENT: Always add acid to water cautiously. Always wear protective equipment.

STORAGE REQUIREMENTS: Store in a cool, dry well ventilated area away from combustibles, oxidizers, bases, metallic powders, acids and bleach.

SPECIAL SHIPPING INFORMATION: 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 least 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.

PHONE NUMBER: (519) 843-6300

DATE: January 1, 2013