

MATERIAL SAFETY DATA SHEET
EMERGENCY : CANUTEC (613) 996-6666

MSDS : 1399-2

PRODUCT IDENTIFICATION AND USE

NAME OF PRODUCT : Acetic acid glacial

USE OF PRODUCT : Acetates manufacture

TRANSPORTATION OF DANGEROUS GOODS

SHIPPING NAME : Acetic acid glacial

WHMIS: B3, E

P.N.I. : UN 2789

PRIMARY CLASS : 8

PACKING GROUP : II

SUBSIDIARY CLASS : 3

COMPONENTS

COMPOSITION	% V/V	CASE #	LD ₅₀ mg/kg Oral/rat	LC ₅₀ ppm 1h (mouse)	TLV ppm 8h
Acetic acid	>99	64-19-7	3310	5620	

PHYSICAL CHARACTERISTICS

PHYSICAL STATE : Liquid	APPEARANCE : Clear, colorless	ODOR : Sharp vinegar	ODORTRESHOLD : 1,018 ppm
VAPOR TENSION (20°C): 11,4 mm Hg	VAPOR DENSITY (air = 1) : 2,07	EVAPORATING RATE (butyl acetate = 1) : <1	
BOILING RANGE : 117°C-118°C	FREEZING POINT : 16,6°C	pH : 2,4 (1M); 2,9 (0,1 M); 3,4 (0,01 M)	

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DENSITY : 1,049	DISTRIBUTION FACTOR WATER/OIL : 0,48	SOLUBILITY IN WATER (25°C) : 100%
REACTIVITY DATA		

CHEMICAL STABILITY : Stable

INCOMPATIBILITY WITH OTHER PRODUCTS : Strong oxidizing (chromic acid, nitric acid, peroxides, chlorates, perchlorates), bases, alcohols, carbonates, hydroxides, oxides, phosphates, 5-azidotetrazole, chromic trioxide, hydrogen peroxide, potassium permanganate, sodium peroxide, phosphorus trichloride, the heat and humidity.

REACTIVITY CONDITIONS : No hazardous polymerization. Avoid heat, sparks and open flames.

EXPLOSION AND FIRE RISKS

FLAMMABILITY : 2

EXTINGUISHING METHODS : water spray, dry chemical, carbon dioxide or polymer foam.

FLASH POINT : 42,8°C (109°F) closed cup
44,5°C (112,1°F) open cup

AUTO-IGNITION TEMPS. : 426°C (798°F)

FLAMMABILITY (% per volume)

SUPERIOR LIMIT : 19,9

LOWER LIMIT : 4

HAZARDOUS COMBUSTION PRODUCT : May liberate carbon monoxide, carbon dioxide.

EXPLOSIBILITY DATA : Not available.

TOXICOLOGICAL PROPERTIES

ABSORPTION WAYS			CONTACT						
SKIN	√	INHALATION	√	INGESTION	√	WITH SKIN	√	EYES	√

EFFECTS OF EXPOSURE TO PRODUCT : Causes severe eye burns and irritation with possible irreversible damage. Causes skin burns. May cause severe and permanent damage to the digestive tract,

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severe pain, nausea, vomiting, diarrhea and shock. Inhalation causes chemical burns to the respiratory tract. Exposure may lead to bronchitis, laryngitis and dental erosion.

PREVENTIVE MEASURES

PROTECTIVE EQUIPMENT : Gloves, security glasses and protective apron.

GLOVES : Acid proof, neopren

RESPIRATORY SYSTEM : Wear a NIOSH-APPROVED respirator for the vapor or mist concentration at the point of use. Appropriate respirators may be a full face piece air-purifying cartridge respirator equipped for organic vapors/acid gas, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator.

OCULAR INSTRUMENT : Chemical goggles and full face shield unless a full face piece respirator is also worn, it is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

CLOTHING : Acid-resistant slicker suit with rubber apron, rubber boots with pants outside.

TECHNICAL CONTROL : Ventilation.

PROCEDURE IN CASE OF LEAKS/SPILLS : Wear acid resistant slicker suit and complete protective equipment including gloves, rubber boots, and self-contained breathing apparatus in the pressure demand mode or a supplied-air respirator. Small Spill: Absorb with an inert dry material and disposed of in dot-approved waste containers. Large Spill: Keep away from heat and sources of ignition. Absorb with non-combustible material and neutralize with a dilute solution of sodium carbonate. Comply with all governmental regulations on spill reporting and handling and disposal waste.

WASTE DISPOSAL : Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Dispose waste in accordance with municipal, provincial and federal regulations.

HANDLING AND STORAGE : Keep away from heat, sparks, and flames. Store in a cool, dry well-ventilated place away from incompatible materials. Vent container frequently and more often in warm

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weather, to relieve pressure. Electrically ground all equipment when handling this product and use only non-sparking tools. Keep container tightly closed when not in use. Do not use pressure to empty container. Wash thoroughly after handling. Do not get in eyes , on skin, or on clothing.

FIRST AID

- EYES :** Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eyelids occasionally. Get immediate medical attention.
- SKIN :** Immediately flush skin with lots of running water. Remove contaminated clothing and shoes, wash before reuse. Get immediate medical attention.
- INGESTION :** Do not induce vomiting, if conscious give lots of water or milk. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.
- INHALATION :** Remove to fresh air. Give artificial respiration if not breathing, get immediate medical attention.

NOTE TO PHYSICIAN : This product contains acetic acid.

INFORMATION ON THE M.S.D.S. PREPARATION

PREPARED BY : **TELEPHONE :** (**REVISED DECEMBER 2011**

NOTE :

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