

MATERIAL SAFETY DATA SHEET

GLACIAL ACETIC ACID

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SECTION I: PRODUCT INFORMATION

TRADE NAME: GLACIAL ACETIC ACID

SUPPLIER/MANUFACTURER: Hunnisett Chemicals Limited, 200 Wicksteed Avenue, Toronto, Ontario M4G 2B6 (416) 421-5212

PREPARATION DATE: June 1, 2005

PRODUCT USE: Spotting Agent

PRODUCT IDENTITY: Organic acid

CLASS E

SECTION II: HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY: Acetic Acid

CAS# / NA# / UN#: 64-19-7

(W/W): 100%

ACGIH TLV: ACGIH TWA / TLV 10 ppm

TOXICITY: LD50 oral (rat) 3310 mg / kg; dermal 1060 mg/kg

LC50 (mouse) 5620 ppm per 1 hours rat.

SECTION III: PHYSICAL DATA

PHYSICAL STATE: Liquid APPEARANCE AND ODOR: pungent odor,clear

ODOR THRESHOLD: >0.21 SPECIFIC GRAVITY: 1.05

VAPOR PRESSURE: 11.4 VAPOR DENSITY: 2.1 (air)

EVAPORATION RATE: Not determined BOILING POINT: 118.3 C

FREEZING POINT: 16.6 C pH: 2.4 @ 60 g/L water

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable WATER SOLUBILITY: 100%

SECTION IV: FIRE AND EXPLOSION DATA

CONDITIONS OF FLAMMABILITY:

(a) Combustible

(b)

MEANS OF EXTINCTION: Carbon dioxide, dry chemical, foam water fog.

FLASHPOINT & METHOD OF DETERMINATION: 39 degrees C (TCC)

UPPER FLAMMABLE LIMIT: 16 C

LOWER FLAMMABLE LIMIT: 5.4%

AUTO-IGNITION TEMPERATURE: 516 C

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide & monoxide.

EXPLOSION DATA-SENSITIVITY TO MECHANICAL IMPACT: Not sensitive

EXPLOSION DATA-SENSITIVITY TO STATIC DISCHARGE: Not sensitive

SECTION V: REACTIVITY DATA

CONDITION UNDER WHICH THE PRODUCT IS CHEMICALLY UNSTABLE: Stable

NAME OF ANY SUBSTANCE OR CLASS OF

SUBSTANCE WITH WHICH THE PRODUCT IS INCOMPATIBLE: Oxidizers, metals, amines, alkaline compounds.

CONDITIONS OF REACTIVITY: Not determined

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide & monoxide.

SECTION VI: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY:

SKIN CONTACT: Causes serious skin burns

SKIN ABSORPTION: Irritant

EYE CONTACT: Vapors will irritate, liquid causes severe burns.

INHALATION: May be irritating after prolonged exposure

INGESTION: May be corrosive to gastrointestinal tract

EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Not determined

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Not determined

EXPOSURE LIMITS: None

IRRITANCY OF PRODUCT: Severe

SENSITIZATION TO PRODUCT: Not known

CARCINOGENICITY: Not known

REPRODUCTIVE TOXICITY: Not known

TERATOGENICITY: Not known

MUTAGENICITY: Not known

NAME OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known

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SECTION VII: PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Eye goggles and rubber gloves must be worn and face shield recommended.
ENGINEERING CONTROLS: Use exhaust ventilation to keep airborne limits below exposure limits
PROCEDURES TO BE FOLLOWED IN CASE OF A LEAK OR SPILL: Eliminate all sources ignition, wear protective equipment.
Absorb residue or small spills with absorbent material and remove to non-leaking containers for disposal. For large quantities, flush area with water but prevent washing's from entering waterways.
WASTE DISPOSAL: In accordance with Provincial and Municipal regulations
HANDLING PROCEDURES AND EQUIPMENT: Use adequate ventilation. Wash thoroughly after handling. Keep away from heat, sparks and open flame. Keep away from incompatibles. Maintain a good personal hygiene.
STORAGE REQUIREMENTS: Store away from oxidizing materials and all sources of ignition. Keep container closed when not in use.
SPECIAL SHIPPING INFORMATION: Acetic Acid, Glacial Class 8 (3) UN 2789 Packing Group II

SECTION VIII: FIRST AID MEASURES

IN CASE OF EYE CONTACT: Hold eyelids apart to ensure complete rinsing of eye surface. Call a physician immediately.
IN CASE OF SKIN CONTACT: Remove contaminated clothing and rinse with water for 15 minutes.
IF INHALED: Remove to fresh air. Apply artificial respiration or administer oxygen if necessary.
IF INGESTED: Call physician or control centre immediately. Do not induce vomiting. Drink plenty of water. Do not give anything by mouth to convulsing person.
PHYSICIAN: Treatment based on judgement of physician and symptoms present.

SPECIAL PRECAUTIONS

One should always use chemicals with awareness of potential hazards, known and unknown, and their effect on the human - system. We urge users to minimize employee exposure to all chemicals, including this product and to keep the level of exposure commensurate with good industrial hygiene practices.

PREPARATION INFORMATION

PREPARED BY: Hunnisett Chemicals Ltd. PHONE NUMBER: (416) 421-5212
24 HOUR EMERGENCY NUMBER: CANUTEC 1-613-996-6666

DISCLAIMER OF LIABILITY

The manufacturer and seller warrants that this product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim all expressed or implied warranties of merchantability or of liability from the use of this product. The information contained herein, as of this date, is believed to be true and accurate, but it is the user's obligation to study the MSDS and determine the conditions for the safe use of this product.
