

MATERIAL SAFETY DATA SHEET

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N.D.: NO DATA AVAILABLE N.A.: NOT APPLICABLE

SECTION 1 - PRODUCT IDENTIFICATION

COMMERCIAL NAME: 99% ISOPROPYL ALCOHOL; 70% RUBBING ISOPROPYL ALCOHOL
CHEMICAL NAME: Propanol-2; Isopropanol. (Aqueous solution 70-99%)
CHEMICAL FORMULA: (CH₃)₂CHOH
CHEMICAL FAMILY: Organic
CODE: A063 (99%); A066 (70%)
PRODUCT USE: A063 (Solvent; Pharmaceutical ingredient); A066 (Rubbing Alcohol).
WHMIS CLASSIFICATION: 99% = B2-D2B; 70% = N.A. not regulated pharmaceutical
TDG CLASSIFICATION: 99% = ISOPROPANOL; 1219; 3; (II)
70% = MEDICINE N.O.S. (ISOPROPANOL); 1851; 3.2; (II)

SECTION 2 - INGREDIENTS**CONTROLLED INGREDIENTS (Over 1% (w/w)):**

ISOPROPANOL: CAS: 67-63-0 70 - 99 %
LD₅₀ (MOUSE-ORAL) = 4720 mg/Kg; LD₅₀ (RABBIT-SKIN) = 12900 mg/Kg; LC₅₀ (RAT) = 12000 ppm/8 hr

SECTION 3 - PHYSICAL CHARACTERISTICS

PHYSICAL STATE, ODOUR AND APPEARANCE: Clear colourless liquid having a characteristic IPA odour.
THRESHOLD ODOUR: 40 ppm
BOILING POINT: 82 - 83°C
pH AT 25°C: N.D.
SPECIFIC GRAVITY AT 25°C. (water = 1): 0.79
VAPOUR PRESSURE mmHg AT 20°C: > 33
VAPOUR DENSITY (air = 1): 2.1
WATER SOLUBILITY: Complete water dilutable.
FREEZING POINT: -86 - -89°C
EVAPORATION RATE: 1.44 (NACBU = 1)
PARTITION COEFFICIENT (WATER/OIL): N.D. Completely miscible with water. Partially oil soluble.
FLASH POINT: 14°C (T.C.C.)
AUTOIGNITION TEMPERATURE: 399°C

SECTION 4 - REACTIVITY

STABILITY: Chemically stable under normal conditions.
CONDITIONS TO AVOID: Avoid exposure to heat, flame or sparks.
INCOMPATIBILITY: Incompatible with strong acids and alkalis. Incompatible with oxidising and reducing agents.
HAZARDOUS DECOMPOSITION: None.
HAZARDOUS POLYMERISATION: None.

SECTION 5 - FIRE AND EXPLOSION HAZARD

FLAMMABILITY: flammable in the presence of excessive heat, flames and sparks.

SPECIAL FIRE HAZARDS: Mixture with air are flammable. Vapours may be heavier than air and could accumulate in confined areas. Avoid close areas.

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide.

FIRE FIGHTING MEDIA: Water, carbon dioxide, chemical powder, foam. Water vaporisation is advisable to cool down fire exposed containers.

SECTION 6 - TOXICOLOGICAL PROPERTIES

EFFECTS OF ACUTE EXPOSURE:

EYES: Cause irritation, pain, acute redness.

SKIN: May cause irritations.

INHALATION: Respiratory tract irritation. May cause; nausea, headache, drowsiness, dizziness, incoordination and loss of consciousness.

INGESTION: Harmful if ingested. May cause; gastro-intestinal irritation, affection of the nervous system the liver and the kidneys, nausea, headaches, sight troubles.

EFFECTS OF CHRONIC EXPOSURE:

Prolonged and repeated exposure by inhalation or absorption, may cause a general intoxication, nausea, headache, drowsiness, dizziness, incoordination and loss of consciousness. Frequent skin contacts may cause skin sensitization.

SECTION 7 - PREVENTATIVE MEASURES

AS NEEDED, APPLY THE APPROPRIATE MEASURES ACCORDING TO THE AMPLITUDE OF EXPOSURE.

SKIN: Use rubber gloves.

EYES: Avoid any contact with the eyes.

RESPIRATORY TRACT: N.A.

OTHER PROTECTIVE EQUIPMENTS: N.A.

VENTILATION: N.A.

IN CASE OF SPILL OR LEAK: Absorb spills with a neutral absorbing material.

WASTE DISPOSAL: As dictated by the federal, provincial and municipal, rules.

HANDLING PROCEDURES AND STORAGE REQUIREMENTS: Use with care. Keep bottle tightly closed and store in a cool area away from heat. Avoid exposure to temperatures above 25°C.

SECTION 8 - FIRST AID MEASURES

EYES: Flush eyes immediately with large volumes of water for 15 minutes. Consult a physician.

SKIN: If irritation appears, stop using.

INHALATION: N.A.

INGESTION: Give water. Do not induce vomiting. In case of non-induced vomiting, lean victim forward to prevent any risk of asphyxia. Never give any liquid to a unconscious person. Get medical attention.

SECTION 9 - OTHER INFORMATION

REVISED IN: May 30, 2005

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