

MATERIAL SAFETY DATA SHEET

PRODUCT: **Isopropanol 99%**

January, 2013

SUPPLIER: Hon-Mark Hardware,
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I. IDENTIFICATION

SYNONYMS: IPA; Isopropyl Alcohol; Propanol-2

CHEMICAL NAME: Propanol-2

CHEMICAL FAMILY: Alcohols

CHEMICAL FORMULA: $\text{CH}_3\text{CH}_2\text{OH} \cdot \text{CH}_3$

C.A.S. NUMBER: 67-63-0

TRANSPORT: Classification: 3

P.I.N.: 1219

PACKING GROUP: II

Shipping Name: Isopropanol

WHMIS CLASSIFICATION: D-2B; B-2; Flammable Liquid

II. HAZARDOUS INGREDIENTS

I. Isopropanol

C.A.S.#: 67-63-0

Range % (w/w): 60-100

LD50-Oral: 5045 mg/kg (Rat)

LD50-Dermal: Not available

LC50: 22640 ppm/4H calc.(Rat)

T.L.V.: 400 ppm (ACGIH 1986/87)

III. HEALTH HAZARDS

EFFECTS OF OVEREXPOSURE:

EYES: May cause slight to moderate irritation, with possible corneal injury.

SKIN: Prolonged or repeated contact may cause irritant and allergic (rare) dermatitis.

INHALATION: Exposure to high vapour concentrations may cause respiratory tract irritation, headache, dizziness, nausea, incoordination, drowsiness and loss of consciousness.

INGESTION: May cause headache, dizziness, nausea, incoordination, drowsiness and loss of consciousness.

FIRST AID:

EYES: Flush eyes with water for at least 15 minutes. If irritation persists, get medical help.

SKIN: Wash skin with mild soap and water.

INHALATION: Remove victim from further exposure and restore breathing if required.

INGESTION: Do not induce vomiting. Get medical help immediately.

NOTES TO PHYSICIAN: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

IV. FIRE & EXPLOSION HAZARDS

FLASH POINT & method (c) 14 (tcc)

Lowest flashing

Component

FLAMMABLE LIMITS (% in air): Lower: 2.0
Upper: 12.0

EXTINGUISHING MEDIA: Use carbon dioxide, water fog, alcohol foam, dry chemical (preferred).

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area. Wear adequate respiratory and clothing protection. Cool fire exposed containers with water. Handle as a flammable liquid.

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapor forms explosive mixture between upper and lower flammable limits.

V. PHYSICAL DATA

The following physical data are approximate only and do not represent specification values. They should only be used in the context of this Material Safety Data Sheet.

BOILING POINT (C): 83
SPECIFIC GRAVITY: (20C): 0.78
VAPOUR PRESSURE: (20C): 33 mm Hg 20
VAPOUR DENSITY : Heavier than air
WATER SOLUBILITY: Complete
VOLATILITY (%): 100
EVAPORATION RATE (Butyl acetate=1): 1.4
APPEARANCE & ODOUR: Clear liquid, alcohol odour.

VI. REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Heat, sparks, open flames and other ignition sources.

INCOMPATIBILITY: Strong oxidizing agents. It may react with aluminum at high temperatures.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide produced on combustion.

HAZARDOUS POLYMERIZATION: Not expected to occur.

VII. SPILLS & LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Warning – flammable. Eliminate all ignition sources. In case of large spills – wear adequate respiratory and clothing protection. Remove spill with vacuum truck or pump (explosion proof) to recovery vessel. Small spills and/or residue – absorb with absorbent material and remove into tightly sealed containers.

WASTE DISPOSAL METHODS: Controlled burning in and approved incinerator or landfill in a government approved site in accordance with federal, provincial and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Approved organic canister mask or air supplied respirator.

VENTILATION: Local exhaust desirable. Mechanical general ventilation to maintain below TLV. Equipment should be spark proof.

PROTECTIVE GLOVES: Impervious rubber.

EYE PROTECTION: Chemical goggles to avoid eye contact.

ADDITIONAL PROTECTIVE EQUIPMENT: Overalls and apron.

IX. ADDITIONAL INFORMATION

HANDLING & STORAGE: Warning – flammable. Store in a cool, well ventilated area, away from heat, sparks and open flames. Aluminum containers are not recommended for storage. Equipment should be grounded to prevent accumulation of static charge. If transferring, containers must be grounded or bonded.

OTHER INFORMATION: Empty containers may contain explosive residues, do not reuse until commercially cleaned. Avoid prolonged or repeated contact with skin. Use normal good personal hygiene.

***** END OF REPORT *****
