

MATERIAL SAFETY DATA SHEET

Isopropyl
Alcohol 70%

1. Product Information

Product: Isopropyl Alcohol 70%
Product Use: Disinfectant and Laboratory Solvent
Supplier: maxill inc.

Product Codes: 60705 60071 – 1 L
60705 60070 – 4 L

80 Elm Street, St. Thomas, ON
Canada N5R 6C8

Contacts: Head Office: (519) 631-7370 Fax: (519) 631-3388 Emergency 24 hour CANUTEC: (613) 996-6666

WHMIS Classification: CLASS B2



CLASS D2(B)



2. Preparation Information

Date Prepared: 30 January 2008
Prepared by: Operations Department
Glossary of Terms: NAV – Not Available

Supersedes: 20 June 2005

Revision: 3

NAP – Not Applicable

DG – Dangerous Goods

3. Hazardous Ingredients

<u>Ingredient</u>	<u>CAS</u>	<u>% Range</u>	<u>LD50 Oral</u> mg/kg Species	<u>LD50 Dermal</u> mg/kg Species	<u>LC50 Inhalation</u> ppm/8 h Species
Isopropyl Alcohol	67-63-0	60 - 100	5045 Rat	12800 Rabbit	12000 Rat

4. Physical Data

Physical State: Liquid
Boiling Point: 83°C
Appearance: Clear Mobile Liquid
Odour: Characteristic

Specific Gravity: 0.8700
Freezing Point: - 72°C
Evaporation Rate: 1.24 (BuAc = 1)
Odour Threshold: 40 ppm

Vapour Density: < 2 @ 20°C
Vapour Pressure: < 33 mm Hg
pH: NAV
Coeff. of H₂O / Oil Distribution: NAV

5. Fire and Explosion Data

WHMIS CLASS B? Yes

Flash Point: 16°C (TCC)

Sensitivity to Static Charge: NAV

Upper Explosion Limit: 12.0% (in air)

Auto Ignition Temperature: NAV

Sensitivity to Impact: Stable

Lower Explosion Limit: 2.0% (in air)

Extinguishment Media: Product is flammable. Use dry chemical, foam or CO₂ for a fire. Use a water spray to keep containers cool.

Conditions to Avoid: Avoid heat, sparks and open flame and temperatures above 30°C. Vapours formed from the product may travel or move by air currents and be ignited by pilot lights, sparks, electrical equipment or other ignition sources.

Hazardous Combustion Products: May emit toxic fumes of carbon monoxide and carbon dioxide, if exposed to fire. Carbon monoxide is highly toxic if inhaled carbon dioxide in sufficient concentrations can act as an asphyxiant.

6. Toxicological Properties

Route of Entry: Eyes, ingestion.

Effects of Acute Exposure:

Eyes: May cause irritation to the eyes with possible corneal injury.

Skin: Irritant on prolonged or repeated exposure.

Inhalation: Headache, dizziness, nausea, incoordination, drowsiness, loss of consciousness, irritation of the respiratory tract.

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

LD50 Oral: 7207 mg/kg Rat

LD50 Dermal: 18286 mg/kg Rabbit

LC50 Inhalation: 17142 ppm/8 h Rat

Irritancy of Product: Primarily eye irritant.

Exposure Limit: OSHA - 400 ppm TWA for isopropyl alcohol

Carcinogenicity: No

Sensitization to Product: No

Teratogenicity: No

Reproductive Toxicity: No

Mutagenicity: No

Effects of Chronic Exposure: Prolonged and repeated exposure to skin can cause defatting and drying of skin resulting in skin irritation and dermatitis. Exposure to high vapour concentrations may cause eye and respiratory tract irritation, headache, dizziness, nausea, incoordination drowsiness and loss of consciousness. Eye damage from contact with liquid

MATERIAL SAFETY DATA SHEET

Isopropyl
Alcohol 70%

is reversible and proper treatment will result in healing within a few days. Damage is usually mild to moderate conjunctivitis, seen mainly as redness of the conjunctiva.

Synergistic Materials: NAV

7. First Aid Measures

Eye Contact: Rinse immediately with cool water, remove contact lenses if any, and continue rinsing with water for at least 15 minutes while holding eyelids open. Consult a physician immediately.

Ingestion: Do not induce vomiting. Give large amounts of milk, egg whites, gelatin solution or cool water and call a physician immediately. Do not give anything by mouth if person is unconscious or convulsing. Call a physician immediately.

Inhalation: Remove to fresh air. If breathing is difficult, call a physician immediately.

Skin Contact: Flush contaminated area with water for at least 20 minutes. Remove contaminated clothing under running water. Completely decontaminate clothing before re-use or discard it. If irritation occurs, seek medical attention.

8. Preventive Measures

Engineering Controls: General ventilation.

Handling Procedures: Avoid ingestion and/or eye contact.

Storage Requirements: Store in original container at controlled room temperature, away from incompatible materials. Keep container closed when not in use.

Leak and Spill Procedure: Mop up excess spilled liquid. For small spills, collect with absorbent material such as paper, vermiculite or floor absorbent. Dispose in accordance with applicable regulations.

Waste disposal: Dispose of product in accordance with applicable federal, provincial and municipal regulations.

Protective Equipment for Bulk Handling of Sealed Containers:

Respiratory: Not required under normal conditions of handling. Use a NIOSH approved respirator if vapour concentration of isopropyl alcohol exceeds 400 ppm.

Eyewear: Safety goggles are recommended.

Gloves: Impermeable gloves (rubber, synthetic) are recommended.

Footwear: Safety boots are recommended.

Other: Eye wash fountains are recommended.

Protective Equipment for End-Users:

Respiratory: Not required under normal conditions of use.

Eyewear: Safety goggles are recommended.

Gloves: Impermeable gloves (rubber, synthetic) are recommended.

Footwear: Not required under normal conditions of handling.

Other: Eye wash fountains are recommended.

9. Reactivity Data

Conditions of Instability: Stable

Incompatible Materials: Avoid contact with strong oxidizers. May react with aluminum at high temperatures.

Conditions of Reactivity: Heat, sparks, open flame, sources of ignition.

Hazardous Decomposition Products: May liberate toxic fumes of carbon oxides and nitrogen oxides if exposed to fire.

10. Special Shipping Information

<u>DG</u>	<u>Proper Shipping Name</u>	<u>TDG Hazard Class</u>	<u>UN Number</u>	<u>Packing Group</u>
Yes*	ISOPROPANOL	3	UN 1219	II

* Where the product-contact container does not exceed containing 1 litre of product, a *Limited Quantity Exemption* applies.

