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## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Product Code:** 10020  
**Product Trade Name:** Isopropyl Alcohol 99%  
**Product Class / Intended End Use:** Thinner/Cleaner  
**Emergency Telephone Numbers:** For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

**For Emergency Transportation Information call CANUTEC at 613-996-6666**

### SECTION 2: HAZARDS IDENTIFICATION

**Classification:**

	Category
Flammable liquids	2
Skin irritation	3
Eye irritation	2A
Specific target organ toxicity – single exposure	3
<b>Signal word:</b>	<b>DANGER!</b>

**Hazard Statements:**

- Extremely flammable liquid and vapour
- Causes serious eye irritation
- Causes mild skin irritation
- May cause drowsiness or dizziness
- May be an aspiration hazard

**Precautionary Statements:**

- Keep away from heat/sparks/open flame/hot surfaces and other ignition sources – NO SMOKING
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting/./equipment
- Use only non-sparking tools
- Take precautionary measure against static discharge
- Avoid breathing dust/fume/gas/mist/vapour/spray
- Wash hands thoroughly after handling
- Use only outdoors or in a well-ventilated area
- Wear protective gloves/protective clothing/eye protection/face protection

**Other Hazards:**

- Vapours can accumulate in low areas
- May form explosive peroxides
- May be harmful if swallowed

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## Hazard Pictograms:



## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT RANGE %
Isopropyl Alcohol	67-63-0	100
<i>N/A = Not Available N/E = Not Established</i>		

## SECTION 4: FIRST-AID MEASURES

- Ingestion:** Do NOT induce vomiting. Call a physician or Poison Control Centre immediately.
- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance. Consult a physician.
- Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention may be required.
- Eye Contact:** Immediately flush eyes with gentle flowing water for 10-15 minutes. Remove contact lenses if present and easy to do. Get medical attention.

*Call a poison centre or doctor/physician if you feel unwell.*

### Most Important Symptoms and Effects (both acute and delayed):

- Can cause eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.
- Direct skin contact may cause slight or mild, transient irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- May cause drowsiness or dizziness
- May cause respiratory irritation
- May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include coughing, choking and wheezing.

### Indication of any Immediate Medical Attention and Special Treatment Needed:

- Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system
- May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

### Notes to Physician:

- Treat symptomatically

## SECTION 5: FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Water fog, CO<sub>2</sub>, extinguishing powder, alcohol resistant foam
- Unsuitable Extinguishing Media:** Do not use a heavy water stream.
- Specific Hazards Arising from the Substance or Mixture:** Flammable. Risk of ignition. Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Containers may explode when heated.
- Special Protective Equipment and Precautions for Fire Fighters:** Move containers from fire area if possible to do without risk. Use water spray to cool fire-exposed containers. Wear self-contained breathing (SCBA) apparatus and full firefighting protective clothing.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge in to the environment must be avoided.

**Methods and Materials for Containment and Clean Up:** Contain spillage and then collect with electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

## SECTION 7: HANDLING AND STORAGE

**Precautions for Safe Handling:** Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapour. Wear protective equipment during handling. Use adequate ventilation. Keep away from heat, sparks, and open flame. Take measures to prevent the build up of electrostatic charge.

**Conditions for Safe Storage:** Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Protect container from physical damage.

**Incompatibles:** Acids, strong oxidizers.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA PEL (ppm)	
	TWA	STEL	PEL	STEL
Isopropyl Alcohol	200	400	400	N/A
<i>N/A = Not Available N/E = Not Established</i>				

**Control Parameters:** No TLV data available on product.

**Appropriate Engineering Controls:** Good ventilation should be provided to keep vapour and mist concentrations below the exposure limits.

**Personal Protective Equipment Respiratory Protection:** Use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapour cartridge and dust/mist filter.

**Eye/Face Protection:** Use splash proof chemical goggles, face shield.

**Skin Protection:** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Flame retardant antistatic protective equipment.

**Other Considerations:** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

Eye wash station and safety shower should be located near the work station.

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## SECTION 9: PHYSICAL PROPERTIES

Physical State/Appearance:	Clear Liquid
Odour:	Sweet
Odour Threshold:	Data not Available
pH:	Not Applicable
Melting Point:	-98 °C / -144.4 °F
Freezing Point:	Not Applicable
Boiling Point:	82.5 °F / 180.5 °F
Flash Point (Setaflash Closed Cup):	13.0 °C / 55.4 °F
Relative Evaporation Rate (Butylacetate=1)	Data not Available
Flammability (solid, gas):	Yes
Explosive Limit:	Data not Available
Vapour Pressure:	D128hPa @20°C
Vapour Density:	Data Not Available
% Volatiles by Weight:	100
Specific Gravity:	0.79 at 20 °C
Solubility in Water:	Partial
Partition Coefficient:	Data not Available
Auto Ignition Temperature:	399 °C / 750.2 °F
Decomposition Temperature:	Data not Available
Viscosity:	<20 cps

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	Normally stable. However, may form peroxides when the anhydrous (no water) material is stored for long periods in contact with air and light. The peroxides are not hazardous unless concentrated by distillation.
<b>Chemical Stability:</b>	Stable at normal condition of usage.
<b>Possibility of Hazardous Reactions:</b>	Vapours may form explosive mixture with air.
<b>Conditions to Avoid:</b>	Avoid ignition sources, heat, sparks, open flame, direct sunlight and extremely high or low temperatures. Do not use in areas without adequate ventilation.
<b>Incompatibles:</b>	Strong oxidizing agents. Strong acids. Alkali metals. Aluminium.
<b>Hazardous Decomposition Products:</b>	Carbon oxides. Other irritating fumes and smoke.

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## SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
Isopropyl Alcohol	4720 12890	Rat Rabbit	Oral Dermal	17000	Rat	Inhalation, 8h
<i>N/A = Not Available N/E = Not Established</i>						

<b>Acute Toxicity:</b>	See above.
<b>No Test Data for the Mixture On:</b>	Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT- repeated exposure, aspiration.
<b>Likely Routes of Exposure:</b>	Inhalation, ingestion, skin contact, eye contact.
<b>Symptoms/Injuries after Eye Exposure:</b>	Can cause severe eye irritation. Symptoms include stinging, tearing, redness, swelling and blurred vision.
<b>Symptoms/Injuries after Skin Exposure:</b>	May cause slight or mild, transient irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause drowsiness or dizziness.
<b>Symptoms/Injuries after Inhalation:</b>	May cause respiratory irritation. May cause irritation to the nose, throat, and upper respiratory tract. Symptoms may include coughing, choking and wheezing.
<b>Symptoms/Injuries after ingestion:</b>	Ingestion of large amounts may cause nausea, vomiting, diarrhea, as well as depression of the central nervous system. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Symptoms of overexposure may headache, dizziness, tiredness, nausea and vomiting.
<b>STOT: Single Exposure:</b>	May cause drowsiness or dizziness.
<b>STOT: Repeated Exposure:</b>	No data available.

## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity:</b>	No test data on mixture.
<b>Persistence and Degradability:</b>	Readily biodegradable
<b>Bio-accumulative Potential:</b>	No bioaccumulation is to be expected
<b>Mobility in Soil:</b>	Dissolves in water. If the product enters soil, one or more constituents will or may be mobile and may contaminate ground water.
<b>Other Adverse Effects:</b>	No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>Handling for Disposal:</b>	Handle waste according to recommendations in Section 7.
<b>Methods of Disposal:</b>	Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and federal regulations. Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water. Do not incinerate closed containers.
<b>RCRA:</b>	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

**DO NOT INCINERATE CLOSED CONTAINERS**

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## SECTION 14: TRANSPORTATION INFORMATION

<b>UN Number:</b>	1219
<b>UN Proper Shipping Name:</b>	Isopropanol; or Isopropyl Alcohol
<b>Transport Hazard Class:</b>	3
<b>Packing Group:</b>	II
<b>Environmental Hazards:</b>	Information not available
<b>Special Precautions for User:</b>	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame. Avoid static electricity.
<b>Transport in Bulk:</b>	Information not available.

## SECTION 15: REGULATORY INFORMATION

**Canada:** All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**USA:**

**TSCA:** All components of this material are on the US TSCA inventory or are exempt.

**OSHA:** This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).

**CERCLA:** Reportable quantities (RQ) (40 CFR 117.302). Data not available.

**SARA TITLE 111:** Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available

**SARA TITLE 111:** Sec 313, toxic chemical notification, 40 CFR 372 - Data not available

## SECTION 16: OTHER INFORMATION

<b>HMIS:</b>	Health 2	Flammability 3	Reactivity 0	
<b>NFPA:</b>	Health 1	Flammability 3	Reactive Instability 0	Special Hazard 0

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**END OF SAFETY DATA SHEET**