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# **SAFETY DATA SHEET**

## **SECTION 1. IDENTIFICATION**

Product identifier used on the label		
	Isopropyl alcohol 70%	
Product Code(s)	: None assigned.	
Recommended use of the chemical and restrictions on use		
	: Solvent; Reagent Use pattern: Professional Use C Restriction on use: None known	5
Chemical family	: Mixture	
Name, address, and telep of the supplier:	hone number	Name, address, and telephone number of the manufacturer:
Canadian Alcohol Co		Refer to supplier
4120 Midland Ave Agincourt, ON, Canada M1S 3B9		
Supplier's Telephone #	: 416-293-0123	
24 Hr. Emergency Tel #	: 24 Hr. Emergency Tel. # (613) 9	996-6666 (CANUTEC)
SECTION 2 HAZADDS II	ENTIFICATION	

## SECTION 2. HAZARDS IDENTIFICATION

#### Classification of the chemical

Clear colourless liquid. Alcohol odour.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable Liquids - Category 2 Serious eye damage/eye irritation - Category 2A Specific Target Organ Toxicity, Single Exposure -Category 3 (respiratory) Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

Label elements

Hazard pictogram(s)



DANGER!

Hazard statement(s)

Highly flammable liquid and vapour. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

#### *Precautionary statement(s)*

Keep away from heat, open flames and hot surfaces. - No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing mist or vapours.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Other hazards

Other hazards which do not result in classification: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Isopropyl alcohol	Isopropyl alcohol 2-Propanol	67-63-0	70.00

## SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

Ingestion	<ul> <li>Call a physician or poison control centre immediately. Do not induce vomiting. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.</li> <li>If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical</li> </ul>				
Innalation	personnel only. If breathing has stopped, give artificial respiration. Get medical attention if symptoms persist.				
Skin contact	<ul> <li>Wash off with soap and plenty of water. If irritation or symptoms develop, seek medical attention. Wash contaminated clothing before re-use.</li> </ul>				
Eye contact	: Immediately flush eyes with running water for at least 15 minutes. Obtain medical attention if irritation persists.				
Most important symptoms and effects, both acute and delayed					
	: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct skin contact may cause slight or mild, transient irritation. May cause respiratory irritation. Symptoms may include upper respiratory irritation, coughing and breathing difficulties. May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.				

#### Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. This product is a CNS depressant.

## SECTION 5. FIRE-FIGHTING MEASURES

# Extinguishing media

Suitable extinguishing media

: Use water fog or fine spray, foams, carbon dioxide or dry chemical.

#### Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

#### Special hazards arising from the substance or mixture / Conditions of flammability

: Highly flammable liquid and vapour. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material.

Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquids - Category 2

#### Hazardous combustion products

: Carbon monoxide, carbon dioxide, toxic vapours, gases or particulates.

## Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

#### Special fire-fighting procedures

: Fight fires from a safe distance. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Environmental precautions Methods and material for co	<ul> <li>Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. For personal protection see section 8.</li> <li>Do not allow material to contaminate ground water system. For large spills, dike the area to prevent spreading.</li> <li>ttainment and cleaning up</li> </ul>
	: Ventilate area of release. Stop spill or leak at source if safely possible. Dike for water control. Use only non-sparking tools and equipment in the clean-up process.Contain and absorb spilled liquid with inert, non-combustible absorbent material (e.g. sand, vermiculite), then place material into open, unsealed containers. For waste disposal, see Section 13 of the SDS.
Special spill response proce	dures
	<ul> <li>If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).</li> <li>US CERCLA Reportable quantity (RQ): None.</li> </ul>

# SECTION 7. HANDLING AND STORAGE

## Precautions for safe handling

: Use only in well-ventilated areas. Wear protective gloves and eye/face protection. Do not ingest or swallow. Avoid breathing vapours. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat, sparks and open flames. Use only non-sparking tools. Avoid contact with incompatible materials. Keep container tightly closed. Take precautionary measures against static discharge. Bond and ground transfer containers and equipment. Use explosion-proof electrical and ventilating equipment.

Conditions for safe storage	:	Store locked up. Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
Incompatible materials	:	Strong oxidizing agents; Strong acids.; Alkali metals; Aluminium ,

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGI	H TLV	OSHA	PEL
	TWA	<u>STEL</u>	PEL	<u>STEL</u>
Isopropyl alcohol	200 ppm	400 ppm	400 ppm (980 mg/m³)	N/Av

# Exposure controls

# Ventilation and engineering measures

	: Ensure adequate ventilation, especially in confined areas. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof electrical and ventilating equipment.
Respiratory protection	: Respiratory protection is required if the concentrations exceed the TLV.
	NIOSH-approved respirators are recommended. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.
Skin protection	: Wear protective gloves. Advice should be sought from glove suppliers.
Eye / face protection	: Wear eye/face protection. Safety glasses with side-shields or chemical splash goggles.
Other protective equipment	An eyewash station and safety shower should be made available in the immediate working area. Depending on conditions of use, an impervious apron should be worn. Other equipment may be required depending on workplace standards.
General hygiene considerati	
	: Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not
	ingest. Do not eat, drink or smoke when using this product. Upon completion of work,
	wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Clear colourless liquid.
Odour	:	Alcohol
Odour threshold	:	Not available.
рН	:	N/Av
Melting/Freezing point	:	<- 89°C (128.2°F)
Initial boiling point and boiling	١g	range
	:	>82.5°C (180.5°F)
Flash point	:	>13°C (-55.4°F)
Flashpoint (Method)	:	closed cup
Evaporation rate (BuAe = 1)	:	Not available.
Flammability (solid, gas)	:	Not applicable.
Lower flammable limit (% by	vo	l.)
	:	2.5%
Upper flammable limit (% by	vo	l.)
	:	12%
Oxidizing properties	:	None.
Explosive properties	:	Not explosive
Vapour pressure	:	24.7 (100%)

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# SAFETY DATA SHEET

Vapour density	:	Not available.	
Relative density / Specific gr	av	ity	
	:	Not available.	
Solubility in water	:	Complete	
Other solubility(ies)	:	Soluble in most organic solvents (e.g. ethanol, acetone, diethyl ether, chloroform).	
Partition coefficient: n-octan	ol/	water or Coefficient of water/oil distribution	
	:	Not available.	
Auto-ignition temperature	:	>399°C (750.2°F)	
Decomposition temperature	:	Not applicable.	
Viscosity	:	Not available.	
Volatiles (% by weight)	:	Not available.	
Volatile organic Compounds (VOC's)			
<b>c</b> .		N/Av	
Absolute pressure of contair	ner		
	:	N/Ap	
Flame projection length		N/Ap	
Other physical/chemical com		r	
		None known or reported by the manufacturer.	
	·		
<b>SECTION 10. STABILITY</b> A	٩N	D REACTIVITY	
Reactivity	:	Not normally reactive.	
Chemical stability	:	Stable under the recommended storage and handling conditions prescribed.	
Possibility of hazardous read	ctic	ons	
	:	Hazardous polymerization will not occur.	
Conditions to avoid	:	Keep away from excessive heat, open flames, sparks and other possible sources of ignition. Avoid contact with incompatible materials. Do not use in areas without	

		adequate ventilation. Avoid heat, open flames, sparks, static electricity and electrical equipment.	
Incompatible materials	:	Incompatible materials (see Section 7).	
Hazardous decomposition p	roo	lucts	

: None known, refer to hazardous combustion products in Section 5.

## SECTION 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure:

Routes of entry inhalation	:	YES
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Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

## **Potential Health Effects:**

## Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

Sign and symptoms ingestic		May cause irritation of the nose, throat, mucous membranes, and respiratory tract. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects.
	:	May cause irritation of mouth, throat, and stomach. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Sign and symptoms skin	:	May cause mild skin irritation.
Sign and symptoms eyes	:	Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Potential Chronic Health Effe	ect	S
Mutagenicity		Prolonged or repeated skin contact may cause drying and irritation. Prolonged overexposure may cause liver and kidney effects. Not expected to be mutagenic in humans.
Carcinogenicity	:	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects & Terat		
	:	Not expected to have other reproductive effects.
Sensitization to material	:	Not expected to be a skin or respiratory sensitizer.
Specific target organ effects	:	This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity, Single Exposure - Category 3 (respiratory) Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects May cause respiratory irritation. May cause drowsiness or dizziness.
		Not closeified as a specific toward even towisity, represented evenesure
Medical conditions aggravat	ed	Not classified as a specific target organ toxicity - repeated exposure. <b>by overexposure</b>
		Pre-existing skin, eye and respiratory disorders.
Synergistic materials	:	None known or reported by the manufacturer.
Toxicological data	:	See below for toxicological data on the substance.

	LC₅₀(4hr)	LDs	:0
Chemical name	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Isopropyl alcohol	17 000 ppm (41.8 mg/L) (vapour)	4720 mg/kg	12 890 mg/kg

#### Other important toxicological hazards

: None known or reported by the manufacturer.

# SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. See the following tables for individual ingredient ecotoxicity data.

## Ecotoxicity data:

Ingradianta		Toxicity to Fish				
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor		
Isopropyl alcohol	67-63-0	9640 mg/L (Fathead minnow)	N/Av	None.		

Ingredients	CAS No	Toxicity to Daphnia			
		EC50 / 48h	NOEC / 21 day	M Factor	
Isopropyl alcohol	67-63-0	> 10 000 mg/L/24hr (Daphnia magna)	N/Av	None.	

Ingredients	CAS No	Toxicity to Algae					
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor			
Isopropyl alcohol	67-63-0	N/Av	N/Av	None.			

Persistence and degradability	,	
	: Readily biodegradable.	
Bioaccumulation potential	: Does not significantly accumulate in organisms.	
<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Isopropyl alcohol (CAS 67-63	-0) 0.05	1.0
Mobility in soil	: No data is available on the product itself.	
Other Adverse Environmenta	effects	
	: No data is available on the product itself.	
SECTION 13. DISPOSAL CO	DNSIDERATIONS	
Handling for Disposal	: See Section 7 (Handling and Storage) for further d residue (liquid and/or vapour) and can be dangero or near this container.	
Methods of Disposal	: Dispose in accordance with all applicable federal, s regulations.	state, provincial and local
RCRA	: If this product, as supplied, becomes a waste in the criteria of a hazardous waste as defined under RC responsibility of the waste generator to determine the disposal method.	RA, Title 40 CFR 261. It is the

# **SECTION 14. TRANSPORT INFORMATION**

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1219	ISOPROPANOL	3	Ш	3
TDG Additional information		as a Limited Quantity when transported in container larger than 30 kg gross mass.	rs no larger than 1.0	L, in combir	ation
49CFR/DOT	UN1219	ISOPROPANOL; or	3	II	<u>8</u>
		ISOPROPYL ALCOHOL			3
49CFR/DOT Additional information	For limited qua	ntity and other exemptions see section 173.150.			
ICAO/IATA	UN1219	Isopropanol; or Isopropyl alcohol	3	II	
ICAO/IATA Additional information	Refer to IATA/I	CAO packaging instruction.		!!	
IMDG	UN1219	ISOPROPANOL; or	3	П	
		ISOPROPYL ALCOHOL			3
	Refer to the IM	DG regulations for more information.	:		

**Environmental hazards** 

**Special precautions for user** : Keep away from heat, sparks and open flame. - No smoking. : This product does not meet the criteria for an environmentally hazardous mixture,

according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

# **SECTION 15 - REGULATORY INFORMATION**

## **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
Ingredients CAS # Inv	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration		
Isopropyl alcohol	67-63-0	Yes	None.	None.	Yes	No	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Eye irritation ;Specific target organ toxicity, single exposure,Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

#### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California	State "Right to Know" Lists						
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Isopropyl alcohol	67-63-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

#### Canadian Information:

WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product. All ingredients are present on the DSL.

#### International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Isopropyl alcohol	67-63-0	200-661-7	Present	Present	(2)-207	KE-29363	Present	HSR001180

#### **SECTION 16. OTHER INFORMATION**

Legend	: ACGIH: American Conference of Governmental Industrial Hygienists
Legend	CA: California
	CAS: Chemical Abstract Services
	CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
	of 1980
	CFR: Code of Federal Regulations
	CNS: Central Nervous System
	CSA: Canadian Standards Association
	DOT: Department of Transportation
	EPA: Environmental Protection Agency
	HMIS: Hazardous Materials Identification System
	HSDB: Hazardous Substances Data Bank
	IARC: International Agency for Research on Cancer
	Inh: Inhalation
	IUCLID: International Uniform Chemical Information Database

	LC: Lethal Concentration
	LD: Lethal Dose
	MA: Massachusetts
	MN: Minnesota
	N/Ap: Not Applicable
	N/Av: Not Available
	NFPA: National Fire Protection Association
	NIOSH: National Institute of Occupational Safety and Health
	NJ: New Jersey
	NTP: National Toxicology Program
	OSHA: Occupational Safety and Health Administration
	PA: Pennsylvania
	PEL: Permissible exposure limit
	RCRA: Resource Conservation and Recovery Act
	RI: Rhode Island
	RTECS: Registry of Toxic Effects of Chemical Substances
	SARA: Superfund Amendments and Reauthorization Act
	STEL: Short Term Exposure Limit
	TDG: Canadian Transportation of Dangerous Goods Act & Regulations
	TLV: Threshold Limit Values
	TWA: Time Weighted Average
	WHMIS: Workplace Hazardous Materials Identification System
References	1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
	2. International Agency for Research on Cancer Monographs, searched 2017
	3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases,
	2017(Chempendium, HSDB and RTECs).
	<ol><li>Material Safety Data Sheets from manufacturer.</li></ol>
	5. US EPA Title III List of Lists - 2017 version.
	6. California Proposition 65 List - 2017 version.
	7. OECD - The Global Portal to Information on Chemical Substances -
Dreneration Date (new /dd/nun	eChemPortal,2017.
Preparation Date (mm/dd/yyyy	
:	08/08/2017
Other special considerations f	or handling
	Provide adequate information, instruction and training for operators.

: Provide adequate information, instruction and training for operators.

# Prepared for: Canadian Alcohol Co 4120 Midland Ave SOLVENTS LTD. Agincourt, ON, Canada, M1S 3B9 SOLVENTS LTD. Telephone: (416) 293 0123 Canadian Alcohol Co. Prepared by: Canadian Alcohol Co. ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) http://www.thecompliancecenter.com ComplianceCenter

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