

# Safety Data Sheet

## Isopropyl Alcohol 70%

### Section 1. Identification

**Common name :** Isopropyl Alcohol 70%

**Product Code :** IPA 70%

**Synonym :** Isopropanol Alcohol / IPA

**Material uses :** Cleaner

**CAS :** 67-63-0

**Supplier / Manufacturer:**

**Solution Chemco Inc.**

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Phone: 418-338-0517

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**In case of emergency:**

**CANUTEC : (613) 996-6666**

### Section 2. Hazards identifications

**Classification :**



Flammable liquid, Category 2

Eye irritation, Category 2A

Specific target organ toxicity - Single exposure (Narcotic effects), Category 3

**Signal word :** Danger

**Hazard statements:**

H225 : Highly flammable liquid and vapour.

H319 : Causes serious eye irritation.

H336 : May cause drowsiness or dizziness.

**Precautionary statements:**

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 : Keep container tightly closed.

P240 : Ground/bond container and receiving equipment.

P241 : Use explosion-proof electrical/ventilating/light equipment.

P242 : Use only non-sparking tools.

P243 : Take precautionary measures against static discharge.  
 P261 : Avoid breathing dust/fumes/gas/mist/vapours/spray.  
 P264 : Wash exposed and/or contaminated area thoroughly after handling.  
 P271 : Use only outdoors or in a well-ventilated area.  
 P280 : Wear protective gloves/protective clothing/eye protection/face protection.  
 P303+P361+P353 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304+P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.  
 P312 : Call a POISON CENTER or doctor if you feel unwell.  
 P337+P313 : If eye irritation persists get medical advice/attention.  
 P370+P378 : In case of fire: Use dry powder, foam and sprayed water to extinguish.  
 P403+P233 : Store in a well ventilated place. Keep container tightly closed.  
 P403+P235 : Store in a well ventilated place. Keep cool.  
 P501 : Dispose of contents / container by a local waste disposal company according to regional regulations.

### **Section 3. Composition and information on ingredients**

<b>Name</b>	<b>CAS</b>	<b>Concentration %</b>
Isopropyl alcohol (Isopropanol)	67-63-0	70

### **Section 4. First aid measures**

#### **Description of first aid if required:**

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### **Eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes.

#### **Skin contact:**

Wash exposed and/or contaminated area thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

#### **Inhalation:**

Bring the conscious victim to fresh air. Avoid breathing dust/fumes/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

#### **Ingestion:**

Do NOT induce vomiting.

#### **Indication of immediate medical attention and special treatment needed, if necessary:**

Do not give anything by mouth to an unconscious victim. See a doctor.

#### **Most important delayed symptoms and effects:**

May cause serious eyes irritation. May cause nausea, headache and vomiting.

### **Section 5. Fire fighting measures**

#### **Flammability of the product :**

Flammable

#### **Flash point :**

12°C / 53.6°F

#### **Auto-ignition temperature :**

425 C

**Products of combustion :**

Data not available

**Special protective actions for fire-fighters :**

Wear self-contained breathing apparatus and appropriate protective clothing.

**Suitable extinguishing media :**

Water spray, Carbon dioxide, Foam, Dry Chemical, Do not use water jet.

**Lower limit of explosivity :**

2%

**Upper limit of explosivity :**

13.4%

**Fire hazards in presence of various substances :**

Data not available

**Section 6. Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

**For non emergency personnel:** Evacuate the area.

**For emergency personnel:** Splash goggles, full suit, chemical resistant gloves. A self-contained breathing apparatus is recommended to avoid inhalation of the product. Suggested protective clothing might not be sufficient. Consult a specialist before handling this product.

**Environmental precautions:**

Do not let product enter drains

**Methods and material for containment and cleaning up:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Section 7. Handling and storage****Precautions in Handling:**

Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes.

**Precautions in Storage:**

Keep container tightly closed in a cool, dry and well-ventilated place.

**Section 8. Exposure Controls, Personal Protections****Control parameters:**

Component	CAS	Value	Control parameters	Basis
Isopropyl alcohol (Isopropanol)	67-63-0	TWA	200 ppm	ACGIH
		TWA	400 ppm	NIOSH
		TWA	400 ppm	OSHA
		STEL	500 ppm	CNESST

**Engineering controls:**

Use mechanical exhaust or laboratory fumehood to avoid exposure.

**Personal protective equipment:**

**Eyes:** Wear safety glasses.

**Skin/body:** Wear a lab coat or any other appropriate protective clothing.

**Respiratory:** If ventilation is insufficient, choose appropriate respiratory protection according to levels and duration of exposure.

**Hands:** Wear chemical resistant protective gloves.

## **Section 9. Physical and chemical properties**

**Physical state:** Liquid

**Color:** Clear

**Odour:** Solvent

**Melting point/Freezing point:** -90°C / -130°F

**Boiling point:** 82°C / 179.6°F

**Appearance:** Clear

**Lower explosion limit:** 2%

**Upper explosion limit:** 13.4%

**Flash point:** 12°C / 53.6°F

**Decomposition temperature:** Data not available

**pH:** Data not available

**Solubility:** Soluble

**Vapour pressure:** 43.2 hPa

**Density:** 0.785

**Relative vapour density:** Data not available

**Evaporation rate:** 3.0

**VOC:** 785 gr/l

## **Section 10. Stability and reactivity**

**Chemical reactivity:** Stable under recommended storage conditions.

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** May ignite if heated strongly.

**Reactivity conditions:** Heat, flames and sparks.

**Conditions to avoid:** Heat, flames and sparks.

**Incompatible materials:** Strong oxidizing agents, acids.

**Hazardous decomposition products:** Carbon oxides

## **Section 11. Toxicological information**

**Acute toxicity :**

Component	CAS	Value
Isopropyl alcohol (Isopropanol)	67-63-0	DL <sub>50</sub> Oral : Rat = 5000 mg/kg DL <sub>50</sub> Oral : Mouse = 3600 mg/kg DL <sub>50</sub> Oral : Rabbit = 6410 mg/kg DL <sub>50</sub> Cutaneous : Rabbit = 12800 mg/kg CL <sub>50</sub> Inhalation : Rat - = 16000 ppm 8h

**Skin corrosion/irritation :**

May cause skin irritation.

**Serious eye damage/irritation :**

May cause eye irritation.

**Respiratory or skin sensitisation :**

Not applicable

**Gem cell mutagenicity :**

Not applicable

**Carcinogenicity :**

Not applicable

**Reproductive toxicity :**

Not applicable

**STOT- Single exposure :**

May cause drowsiness or dizziness.

**STOT- repeated exposure :**

Not applicable

**Aspiration hazard :**

Not applicable

**Information on likely route of exposure :**

Skin, eyes, inhalation and ingestion

**Section 12. Ecological information****Ecological data for aquatic environments :**

Component	CAS	Value
Isopropyl alcohol (Isopropanol)	67-63-0	CL <sub>50</sub> - Pimephales promelas (fathead minnow) 9640 mg/L - 96h CE <sub>50</sub> - Daphnia magna 5120 mg/L - 24h CE <sub>50</sub> - Green algae (desmodesmus subspicatus) 2000 mg/L - 24h CE <sub>50</sub> - Algae 1000 mg/L - 72h

**Persistence and degradability :**

No data available

**Bioaccumulative potential :**

Does not bioaccumulate.

**Mobility in soil :**

No data available


**Other adverse effects :**


No data available


**Section 13. Disposal considerations****Waste disposal :**


Dispose of the chemical waste is in conformity with the federal, provincial and local laws. Store the residues of the product in safe containers. Place the containers in storage area of dangerous chemical waste.

## Section 14. Transportation information

TDG		
UN # : UN 1219	Proper shipping name : ISOPROPYL ALCOHOL	
Class : 3	Packing group : II	

DOT		
UN # : UN 1219	Proper shipping name : ISOPROPYL ALCOHOL	
Class : 3	Packing group : II	

IMDG			
UN # : UN 1219	Proper shipping name : ISOPROPYL ALCOHOL		EMS-No :
Class : 3	Packing group : II		

IATA		
UN # : UN 1219	Proper shipping name : ISOPROPYL ALCOHOL	
Class : 3	Packing group : II	

## Section 15. Regulatory information

## Section 16. Additional information

### **Date of issue :**

2020-02-13

### **Version :**

2.00

### **Elaborated by :**

Solutions Chemco Inc.

### **Notice to reader :**

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### **Références :**

- *Répertoire toxicologique of la Commission des normes, de l'équité, de la santé et de la sécurité du travail.*
- *Registry of Toxic effects of Chemical Substances of the Canadian Centre for Occupational Health and Safety.*
- *Material safety data sheet from the manufacturer.*
- *Hazardous Products Regulations (DORS/2015-17).*

- *Canadian Transport of Dangerous Goods.*
- *The Globally Harmonized System of Classification and Labelling of Chemicals (GHS) <http://www.hc-sc.gc.ca/a>*