

Section 1 Product and Company Identification Isopropyl Alcohol 99 %

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Product Name: **Isopropyl Alcohol 99%**

Product Description: Alcohol

Product Family: Alcohol

Section 2 Hazard Identification

Solvent	Cas #	TLV	% Weight
Isopropyl Alcohol	67-63-0	100 ppm	100.

Hazardous Classification Code

Health: 2	Scale:	0 no hazard	
Flammability: 3		1 – Minimal	3 - High
Reactivity: 0		2- Moderate	4 – Extreme

Signal Word: Danger

Physical Hazard : Flammable Liquid. Category 2

Health Hazard: Eye irritant Category 2A May cause respiratory irritation.
May cause drowsiness or dizziness.

Hazard Statements: Highly Flammable Liquid and Vapour H225
May cause mild skin irritation H316
May cause drowsiness or dizziness H336



Section 3 Physical and Chemical Properties

Appearance and Odour: Clear colourless liquid with an Alcohol odour.

Boiling Point: 82.3 Deg.C

Vapour Pressure: 33.0 mmHg 20 Deg.C

Vapour Density: 2.10 (Air =1)

Specific Gravity: .79 @ 15.50 Deg.C (water= 1.00)

pH : Neutral

Odour threshold: 100 ppm

Melting Point/Freezing Point: Not Available

Solubility in Water: Completely

Percentage Volatile: 100%

VOC (kg/litre): 0.79 kg/lit

Evaporation Rate: 1.44 (n-Butyl Acetate=1)

Section 4 First Aid Procedure

Eye Contact: Severe eye irritation. Immediately flush with water for at least 15 minutes.

Get medical attention.

Skin Contact: Very low order of toxicity by skin absorption. However, prolong and frequent contact may cause skin irritation and dermatitis. Wash skin with soap and water.

Inhalation: The vapour has low to moderate toxicity. Remove immediately from contaminated area. Apply artificial respiration if breathing has stopped. Seek medical assistance.

Ingestion: Due to aspiration into the lungs, do not induce vomiting. Seek medical assistance immediately. For quick response, the individual should drink large quantity of water or milk.

Section 5 Accidental Release Information

In case of spill:

Remove all Ignition source, and keep public away. Prevent any additional discharge and contain spill from entering sewer. Ventilate the spill area. Absorb the spill liquid with an absorbent sand, but not with any combustible material such as saw dust. For large spill, use an explosion proof motor. Dispose of recovered material according to government requirement. Notify the appropriate authority for large spill. For small spill, use a mop or absorbent towels and store in well ventilated area.

Section 6 Fire Fighting Measures

Flash Point: 12 Deg. C TCC

Auto Ignition temperature: 388 Deg. C.

Explosion limit in air: 12 % by Volume in Air.

Hazardous product of combustion: Fumes, Smoke and carbon monoxide.

Fire Fighting: If spill is not ignited, use water spray to disperse the vapour. If spill is ignited, allow to burn under a control condition or extinguish with foam or dry chemical. Avoid spraying water directly on fire, to prevent boil over. A small fire can be controlled with a portable fire extinguisher.

Section 7 Precaution for the safe Handling and Storage

There is no such thing as a safe chemical, and all chemicals carry some type of inherent risk.

P202. Some type of appropriate safety measure should always be taken when handling them.

P 233. Always keep container closed when not in use.

P235 P410. Always store product in a cool dry area, away from direct sunlight and strong oxidising agents.

P 210. Also, store product away from any ignition source, building exits, and electrical panels.

P240. When transferring, always ground containers to prevent static discharge.

P241. Use explosion proof equipment when handling. This includes pumps, ventilation and lights.

P242. Always use non sparking tools .

P243. Product is a static accumulator, use adequate grounding when transferring at temperature near the flash point. Always transfer to a labelled container.

P251. Since empty container contain product residue, do not weld or puncture container.

P261. Avoid breathing fumes and vapour spray.

P271. Always use in well ventilated area to ensure the total hydrocarbon concentration is well below the occupational exposure limit.

P273. Avoid release to the environment.

P280. Wear suitable eye protection if the possibility of splashing may occur.

P282. Avoid frequent or prolong skin contact. Use chemical resistant gloves.

P301 P310 . If swallowed, immediately call Poison Control Centre.

P303 P333 P353. If spilled on skin, rinse skin and shower. If skin irritation or rash occur, seek Medical Advice.

P304 P340. If inhaled, remove person to fresh air and keep comfortable for breathing.

P305 P337 P338 P351. If splashed into eyes, rinse eye with water for several minutes. Remove contact lens and continue rinsing. If eye irritation persist, get medical advice.

P306 P361 P363. If got on clothing, remove contaminated clothes and wash before reuse.

P314. Get Medical Advice if you feel unwell

P342. If experiencing respiratory symptoms, seek medical advice.

P370 P378. In case of fire. Use fire extinguisher. Sand or dry chemicals or alcohol resistant foam.

P371 P380 P375. In case of major fire and large quantity, evacuate area. Call emergency services.

P403 P404 P233. Store in a well ventilated area. Keep container closed when not in use.

P410 . Keep away from direct sunlight.

Other Hazards: Vapour can accumulate in low areas.

Section 8 Exposure Control

Engineering Controls: The use of adequate mechanical ventilation in a confined area to prevent the build up vapour. The use of adequate eye protection and suitable chemical resistant gloves.

Section 9 Stability and Reactivity

Stability: Stable

Material to avoid: Strong oxidising agents

Product is a static accumulator. Use adequate grounding when transferring.

Oxides of carbon when combustion.

Section 10 Spill and Disposal Information

For Large spill: Pump in a suitable chemical container with explosion proof pump.

For small spill: Use absorbent material or sand and store in chemical container.

Wash spilled area with soap and water after spill is removed.

Empty container may contain hazardous solvent residue, both liquid and vapour.

Dispose in accordance with local regulation at a licensed facility.

Section 11 Toxicological Information

LD 50 Oral Rat	4.72 g/kg
LD 50 Dermal Rat	12.9 g/kg
LC 50 Rats	12,000ppm/ 8 hours

Section 12 Ecological Information

Persistence and Degradability: Readily biodegradable

Bio accumulation and potential toxicity: No bioaccumulation expected.

Effect on soil mobility: Isopropyl Alcohol readily dissolve in water and if enter the soil may contaminate ground water.

Section 13 Regulatory Information:

WHMIS Classification: B2, D2B

The components is listed on DSL inventory.

This product is for Industrial Use Only.

Section 14 Transportation Information

Shipping Name: Isopropyl Alcohol 99%.

Hazardous Content: Alcohol

Class 3 Liquid

UN Number: UN 1219

Packaging Group: II

Isopropyl Alcohol is regulated under the Transportation of Dangerous Goods Regulation.

Special Shipping Requirements: Product is Class B Division 2 Flammable Liquid.

Section 15 Other Information

This product is considered as a Flammable liquid. Container is hazardous when empty. Since it contains both liquid and vapour, all hazardous precaution must be observed.

Section 16 Prepared: April /2016

The Information in this document is considered to be accurate and obtained from reliable source.

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