


Material Safety Data Sheet

Section 1. Chemical Product and Company Identification		
Product Name:	Iso Propyl Alcohol	Version: 5 Effective Date: June 23, 2014
Supplier/ Manufacturer:	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Material Uses	Industrial solvent	
24 Hour Emergency	Canutec (613) 996-6666	
WHMIS		
		
This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR		
HMIS Ratings for this product are: Health 2, Flammability 3, Reactivity 0		

Section 2. Composition and Information on Ingredients		
Name	CAS#	% by weight
Iso propyl alcohol	67-63-0	100
See Section 8 for information on permissible exposure limits and threshold limit values		

Section 3. Hazards Identification	
Physical State and Appearance	Clear, colourless liquid, with strong odour
Hazard Summary	Irritant, mildly toxic
Routes of Exposure	Skin – contact & absorption, eyes, inhalation, ingestion
Potential Acute Health Effects	<p>Skin: Mild skin irritant. Prolonged and continuous contact can lead to drying, cracking and burning of the skin. Product may be absorbed through the skin.</p> <p>Eyes: Irritant. May cause stinging, tearing, redness and swelling of the eyes.</p>

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	<p>Inhalation: Inhalation of large quantities of this material may cause harmful effects.</p> <p>Ingestion: Ingestion of large quantities of this material may be harmful. Irritation of the digestive tract may occur. Ingestion may lead to vomiting, inhalation of vomit may cause serious lung injury.</p>
Medical Conditions Aggravated by Exposure	Asthma, dermatitis, eczema, kidney function
See Toxicological Information – Section 11	
Additional Hazard Identification Remarks	None

Section 4. First Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Rinse mouth with water if conscious. Do not induce vomiting. Lay victim on their side to prevent aspiration of any vomit. Seek immediate medical attention.
Notes to Physician	None
Additional First Aid Remarks	None

Section 5. Fire Fighting Measures	
Flammability of the Product	Highly flammable
Flash Point	12 °C
Explosive Limits	LEL: 2.5 % UEL: 12 %
Auto Ignition Temperature	399 °C
Static Discharge	Yes
Suitable Extinguishing Media	Dry chemical, alcohol resistant foam, carbon dioxide
Hazardous Combustion Products	Carbon monoxide, carbon dioxide
Precautions for Fire Fighting	Fire fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

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Section 6. Accidental Release Measures	
Personal Precautions	Gloves (nitrile), coveralls (Nomex), chemical resistant footwear
Environmental Precautions	Do not allow product to enter surface drains and watercourses. Vapours will collect in low areas such as sumps, basements and pits.
Methods for Clean Up	Remove all sources of ignition. Evacuate the area, except for emergency personnel. Soak up or pump up spilt material, place in a suitable container for disposal. Wash area with water to remove residues.

Section 7. Handling and Storage	
Handling	Handle with care – Highly Flammable Liquid. All drums should be grounded when in use. All sources of ignition must be removed.
Storage	Store in a cool dry place, away from all sources of ignition. Good house keeping practices should be in place. Incompatible materials should be segregated. Containers should be kept closed when not in use.

Section 8. Exposure Controls and Personal Protection			
Exposure Guidelines	TWA: 8 Hr	STEL: 15 min	Ceiling
Iso propyl alcohol	400 ppm CAD AB OEL	500 ppm CAD AB OEL	
Exposure Controls	Local exhaust ventilation		
Personal Protection			
Respiratory	Air purifying respirator fitted with organic vapour cartridges must be worn if exposure limits are exceeded		
Skin	Gloves (nitrile), coveralls (Nomex), chemical resistant footwear		
Eyes	Safety glasses		
Other	None		

Section 9. Physical and Chemical Properties	
Physical State and Appearance	Clear, colourless liquid, with strong odour
Odour Threshold	No data
pH	Not applicable
Boiling Point	82.5 °C
Melting Point / Freezing point	-88.5 °C
Evaporation Rate	7.70 (ethyl ether)
Vapour Density	2.1 (air = 1)
Vapour Pressure	6.05 kPa @ 25 °C
Specific Gravity	0.789
Solubility in Water	Soluble
% Volatile	100 %
Other Data	None

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Section 10. Stability and Reactivity	
Chemical Stability	Stable
Hazardous Polymerisation	Will not occur
Conditions to Avoid	Heat, flames, sparks and sources of ignition
Materials to Avoid	Acids, aldehydes, alkalis, amines, ethylene oxide, halogenated hydrocarbons, halogens, isocyanates, strong acids, strong oxidising agents. Do not use with aluminium equipment at temperatures above 49 °C
Hazardous Decomposition Products	Not expected to decompose under normal conditions of use

Section 11. Toxicological Information	
Principle Routes of Exposure	
Skin:	Mild skin irritant. Prolonged and continuous contact can lead to drying, cracking and burning of the skin. Product may be absorbed through the skin.
Eyes:	Irritant. May cause stinging, tearing, redness and swelling of the eyes.
Inhalation:	Inhalation: Inhalation of large quantities of this material may cause harmful effects.
Ingestion:	Ingestion: Ingestion of large quantities of this material may be harmful. Irritation of the digestive tract may occur. Ingestion may lead to vomiting, inhalation of vomit may cause serious lung injury.
Additional Information	
Acute Toxicity	
Iso propyl alcohol	LD50: 4700 – 5800 mg/kg (Rat, oral) LC50: 16000 ppm (Rat, inhalation) 4hr LD50: 5030 – 7900 mg/kg (Rabbit, dermal)
Chronic Toxic Effects – Reversible liver effects	
Carcinogenicity – Not listed	
Reproductive Toxicity / Teratogenicity / Embryotoxicity / Mutagenicity – Has been shown to harm the foetus in animal studies. Relevance to humans is not known.	

Section 12. Ecological Information	
Ecotoxicity	LC50: 5770 – 7450 mg/L (Fathead minnow) 96 hr flow through LC50: 10,000 mg/L (Water flea) 24 hr static test
BOD and COD	No data
Biodegradability / OECD	No data
Toxicity of the Products of Biodegradation	No data
Special Remarks	None

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Section 13. Disposal Considerations

Dispose of in accordance with local, provincial and federal regulations

Section 14. Transport Information

TDG Classification	Isopropanol UN 1219 Class 3 Packing Group II
Emergency Response Guide #	ERG# 129
Marine Pollutant	No
Special Precautions	None

Section 15. Regulatory Information

Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
WHMIS Hazard Class	B2 D2B
Additional Information	None

Section 16. Other Information

Prepared by:

Chemfax Products Ltd., Technical Department

Date Prepared: 27 September, 2014

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Disclaimer

Notice to reader

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