

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification		
Product Name:	Propylene Glycol 50%	Version: 4 Effective Date: June 23, 2014
Supplier / Manufacturer:	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Material Uses	Non toxic heat transfer fluid	
24 Hour Emergency	Canutec (613) 996-6666	
WHMIS		
This product is not regulated for 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 0 , Flammability 0 , Reactivity 0		

Section 2. Composition and Information on Ingredients		
Name	CAS#	% by weight
All components are considered non hazardous		
See Section 8 for information on permissible exposure limits and threshold limit values		

Section 3. Hazards Identification	
Physical State and Appearance	Clear, colourless, odourless liquid
Hazard Summary	Potential mild irritant
Routes of Exposure	Skin - contact, Eyes, Inhalation, Ingestion
Potential Acute Health Effects	<p>Skin: Potential irritant. May cause irritation and redness with prolonged and repeated contact.</p> <p>Eyes: Irritant. Will cause tearing and irritation.</p> <p>Inhalation: Irritant. May cause irritation of the upper respiratory tract</p> <p>Ingestion: May cause digestive tract disturbances</p>
Medical Conditions Aggravated by Exposure	None known

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See Toxicological Information – Section 11	
Additional Hazard	None
Identification Remarks	

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 left 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	Non flammable. Product will burn if involved in a fire.
Flash Point	> 100 °C
Explosive Limits	No data
Auto Ignition Temperature	No data
Static Discharge	No
Suitable Extinguishing Media	Foam, dry chemical, water fog, CO ₂
Hazardous Combustion Products	Oxides of carbon
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.

Section 6. Accidental Release Measures	
Personal Precautions	Protective equipment is not required under normal conditions of use. Good housekeeping practices should be employed.
Environmental Precautions	As a general precaution propylene glycol should not be allowed to enter the storm sewers or surface water courses.
Methods for Clean Up	Soak up with absorbent. Place in a suitable container for disposal. Wash area with water to remove residues.

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Section 7. Handling and Storage	
Handling	Handle with care. Good housekeeping practices should be employed.
Storage	Store in a cool place. Keep container closed when not in use.

Section 8. Exposure Controls and Personal Protection			
Exposure Guidelines	TWA: 8 Hr	STEL: 15 min	Ceiling
Propylene Glycol	Not established		
Exposure Controls	Local exhaust ventilation		
Personal Protection			
Respiratory	Not required under normal conditions of use		
Skin	Gloves (nitrile)		
Eyes	Safety glasses		
Other	None		

Section 9. Physical and Chemical Properties	
Physical State and Appearance	Clear, colourless, odourless liquid
Odour Threshold	Not applicable
pH	6 - 7
Boiling Point	No data
Melting Point / Freezing point	-34 °C
Evaporation Rate	No data
Vapour Density	No data
Vapour Pressure	No data
Relative Density	1.0384 (g/cc)
Solubility in Water	Soluble in water. Hygroscopic
% Volatile	50
Other Data	None

Section 10. Stability and Reactivity	
Chemical Stability	Stable
Hazardous Polymerisation	Will not occur
Conditions to Avoid	At elevated temperatures flammable vapours may be produced. Avoid high temperatures, sparks, open flames and other sources of ignition. Temperatures above 40 °C. Avoid moisture contamination. Hygroscopic
Materials to Avoid	Strong oxidisers. Strong acids. Isocyanates
Hazardous Decomposition Products	Thermal decomposition products are toxic and may include oxides of carbon and irritating gases.

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Section 11. Toxicological Information	
Principle Routes of Exposure	
Skin:	Potential irritant. May cause irritation and redness with prolonged and repeated contact.
Eyes:	Irritant. Will cause tearing and irritation.
Inhalation:	Irritant. May cause irritation of the upper respiratory tract
Ingestion:	May cause digestive tract disturbances
Additional Information	
Acute Toxicity	
Propylene glycol	LD50: 20,000 mg/kg (Rat, oral)
Chronic Toxic Effects – None known	
Carcinogenicity – Not listed	
Reproductive Toxicity / Teratogenicity / Embryotoxicity / Mutagenicity – None known	

Section 12. Ecological Information	
Ecotoxicity	LC50: 23,800 (Sheepshead Minow) 96 hr EC50: above 43,500 mg/L (Daphnia) 48 hr
BOD and COD	BOD: 2.2 – 64 % (theoretical 5 days)
Biodegradability / OECD	This product has a moderate rate of biodegradation
Toxicity of the Products of Biodegradation	Not expected to be harmful by products
Special Remarks	Not expected to bioaccumulate

Section 13. Disposal Considerations	
Dispose of in accordance with local, provincial and federal regulations	

Section 14. Transport Information	
TDG Classification	Not regulated under TDG
Emergency response Guide #	Not applicable
Marine Pollutant	No
Special Precautions	None

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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	This product is not regulated for WHMIS
Additional Information	None

Section 16. Other Information	
Prepared by: Chemfax Products Ltd., Technical Department	
Date Prepared:	15 January, 2013
Revision Date:	23 June, 2014
Disclaimer Notice to reader	
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