



Material Safety Data Sheet

NFPA	HMIS	DOT												
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Health</div>  <div style="margin-left: 10px;"> <p>Fire Hazard</p> <p>Reactivity</p> <p>Specific hazard</p> </div> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">Health Hazard</td> <td style="width: 5%; text-align: center;">*</td> <td style="width: 15%; text-align: center;">1</td> </tr> <tr> <td>Fire Hazard</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td>Reactivity</td> <td></td> <td style="text-align: center;">0</td> </tr> <tr> <td>Personal Protection</td> <td></td> <td style="text-align: center;">1</td> </tr> </table>	Health Hazard	*	1	Fire Hazard		0	Reactivity		0	Personal Protection		1	
Health Hazard	*	1												
Fire Hazard		0												
Reactivity		0												
Personal Protection		1												


Section 1. General Information

Common Name GROP	Code 1111
Supplier AVMOR LTD 950 MICHELIN LAVAL (QC) H7L 5C1 TEL: (450) 629-8074	Emergency phone # CANUTEC : 1-613-996-6666
HCS Risk Phrases HCS CLASS: Target organ effects.	DOT Not a DOT controlled material (United States). Not applicable.
Federal and State Regulations No products were found.	

Section 2. Hazardous Ingredients

Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
Ethylene glycol	107-21-1	1-5	Not available.	ORAL (LD50): Acute: 4700 mg/kg [Rat]. DERMAL (LD50): Acute: 9530 mg/kg [Rabbit].
Diethylene Glycol ethyl ether	111-90-0	1-5	Not available.	ORAL (LD50): Acute: 5500 mg/kg [Rat]. DERMAL (LD50): Acute: 8500 mg/kg [Rabbit].
Glycol ether EP	2807-30-9	1-5	Not available.	ORAL (LD50): Acute: 3089 mg/kg [Rat].

Section 3. Special Protection

Respiratory protection	Wear appropriate respirator when ventilation is inadequate.		
Ventilation	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.		
Personal Protection (pictograms)		Eye Protection	Splash goggles.
		Protective gloves	Gloves (impervious).
Other Protective Equipment	Wear appropriate respirator when ventilation is inadequate. Safety glasses. Gloves.		

Section 4. Health Hazards Data

Routes of Entry	Ingestion. Eye contact. Skin contact. Inhalation of the spray mist.
Potential Acute Health Effects	Dangerous in case of ingestion. This product may irritate eyes upon contact. Prolonged contact may cause skin irritation or defatting. Spray mist may produce tissue damage particularly on mucous membranes of nose, mouth and respiratory tract.
Effects of overexposure	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may cause target organs effects. Repeated exposure may cause chronic eye and skin irritation.
Emergency and First Aid Procedures	
Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. If irritation persists, seek medical attention.
Skin Contact	Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.

Continued on Next Page

Inhalation	Allow the victim to rest in a well ventilated area. Seek medical attention if discomfort persists.
Ingestion	DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. NEVER give an unconscious person anything to ingest. Seek immediate medical attention.
Other Toxic Effects on Humans	Dangerous in case of ingestion. Slightly dangerous in case of skin contact (permeator), of eye contact (irritant), of inhalation.
Threshold Limit Value	Ethylene glycol TWA: 50 (ppm) from ACGIH [1994] Dibutyl phthalate TWA: 5 CEIL: 10 (mg/m ³) Glycol ether EP TWA: 25 (ppm)

Section 5. Physical Data

Physical state	Liquid.	Odor	Mild acrylic.
Boiling Point	Weighted average: 113.01°C (235.4°F)	Taste	Not available.
Melting Point	0°C (32°F)	Color	White.
Critical Temperature	Not available.	Molecular Weight	Not applicable.
Volatility	80% (v/v).	pH (in water)	Not available.
Evaporation rate	Not available.	pH (concentrate)	7.5-8
Vapor Pressure	Weighted average: 15.48 mm of Hg (@ 20°C)	Vapor Density	Weighted average: 1.4 (Air = 1)
Ionicity (in Water)	Not available.	Specific Gravity	1.020-1.025 (Water = 1)
Dispersion Properties	See solubility in water, methanol, diethyl ether, n-octanol.	Viscosity	Not available.
Solubility	Easily soluble in cold water, hot water, methanol. Soluble in diethyl ether. Very slightly soluble in n-octanol.	Odor Threshold	Not available.

Section 6. Fire and Explosion Data

Flash Points	Not applicable.
Flammable Limits	Not applicable.
Extinguishing Media and Instructions	Use DRY chemicals, CO ₂ , water spray or foam.
Special Firefighting Procedures	No additional remark.
Unusual Fire Explosion Hazards	No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Section 7. Reactivity Data

Chemical Stability	The product is stable. (Yet this product is sensitive to drastic changes of temperature)
Conditions of Instability	No additional remark.
Incompatibility with various substances	Slightly reactive to reactive with oxidizing agents, reducing agents, acids, alkalis. Very slightly to slightly reactive with organic materials. Non-reactive with metals.
Hazardous Decomposition Products	See fire degradation products.
Hazardous Polymerization (will or will not occur)	Not available.

Section 8. Special Precautions

Handling	After handling, always wash hands thoroughly with soap and water. Do not puncture, incinerate, store the container at temperatures above 49°C (120°F) or in direct sunlight. Manipulate in a well-ventilated area or under an adequate fume hood.
Storage	Store in a dry, cool and well ventilated area. Keep away from freezing.
Other Precautions	No additional information.

Section 9. Spill or Leak Procedures

Steps to be taken if material is released or spilled	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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Waste Disposal**Section 10. Additional Information**

References	-Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List". -Guide to Canadian Transportation of Dangerous Goods Act and Regulations. International compliance centre LTD. 1986. -Manufacturer's Material Safety Data Sheet.
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No additional remark.

Validated by Regulatory Affairs on 2003-03-19

Verified by Regulatory Affairs.

Printed 2003-03-19.

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