

Propylene glycol

Section 1. Chemical Product and Company Identification

Common Name : Propylene Glycol Industrial
Material Uses : Not available.
Part number : 506004, 506020, 506205
Manufactured for : LynCar Products Limited,
30 Hedgedale Road,
Brampton, ONT L6T 5L2
Tel: (800) 263-7011
Fax: (800) 459-6227

Validation Date : 2004-11-14.
In Case of Emergency : CANUTEC (613) 996-6666

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	UN number
Propylene glycol	57-55-6	70-100	Not regulated.

This material is classified as not hazardous under the WHMIS in Canada.

See Section 8 for Exposure Limits.
See Section 11 for Toxicological Data.

Section 3. Hazards Identification

Physical State and Appearance : Liquid. (Viscous liquid.)

Emergency Overview : No specific hazard.
USE WITH CARE.
Follow good industrial hygiene practice.

Routes of Entry : Absorbed through skin. Eye contact. Ingestion.

Potential Acute Health Effects

- Eyes** : Slightly hazardous in case of eye contact (irritant).
- Skin** : Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin.
- Inhalation** : Not available.
- Ingestion** : Not available.

Potential Chronic Health Effects : **CARCINOGENIC EFFECTS**: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.

Medical Conditions Aggravated by Overexposure: : Repeated or prolonged exposure is not known to aggravate medical condition.

Over-exposure signs/symptoms : Not available.

See Section 11 for more detailed information on health effects and symptoms.

Section 4. First Aid Measures

Eye Contact : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

Skin Contact : Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Notes to Physician : No specific antidote. Medical staff must contact Poison Information Center.

Section 5. Fire Fighting Measures

- Flammability of the Product** : May be combustible at high temperature.
- Auto-ignition Temperature** : 371.16°C (700.1°F)
- Flash Points** : Closed cup: 98.9°C (210°F). (Tagliabue.)
- Flammable Limits** : LOWER: 2.6% UPPER: 12.5%
- Products of Combustion** : These products are carbon oxides (CO, CO₂).
- Fire Hazards in Presence of Various Substances** : Non-flammable in presence of heat.
- Explosion Hazards in Presence of Various Substances** : Risks of explosion of the product in presence of mechanical impact: Not applicable.
Risks of explosion of the product in presence of static discharge: Not applicable.
- Fire Fighting Media and Instructions** : SMALL FIRE: Use dry chemical powder.
LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- Protective Clothing (Fire)** : Be sure to use an approved/certified respirator or equivalent.
- Special Remarks on Fire Hazards** : Not available.

Section 6. Accidental Release Measures

- Small Spill and Leak** : 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.
- Large Spill and Leak** : Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

- Handling** : Avoid breathing vapors or spray mists.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls, Personal Protection

- Engineering Controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Eyes : Safety glasses.

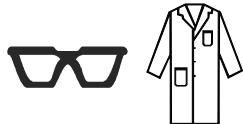
Body : Lab coat.

Respiratory : Not applicable.

Hands : Not applicable.

Feet : Not applicable.

Protective Clothing (Pictograms) :



- Personal Protection in Case of a Large Spill** : Splash goggles. Full suit. Boots. Gloves.
- Exposure Limits**
None assigned.

[Consult local authorities for acceptable exposure limits.](#)

Section 9. Physical and Chemical Properties

Physical State and Appearance	: Liquid. (Viscous liquid.)
Color	: Colorless.
Odor	: Odorless.
Molecular Weight	: 76.09 g/mole
Molecular Formula	: C ₃ H ₈ O ₂
pH (1% Soln/Water)	: Not available.
Boiling/Condensation Point	: 187.4°C (369.3°F)
Melting/Freezing Point	: -59.95°C (-75.9°F)
Specific Gravity	: 1.04 (Water = 1)
Vapor Pressure	: 0.02 kPa (0.1 mm Hg) (at 20°C)
Vapor Density	: 2.62 (Air = 1)
Volatility	: 100% (v/v). 100% (w/w).
Odor Threshold	: Not available.
Evaporation Rate	: 0.01 compared to Butyl acetate.
VOC	: 100 (%)
Viscosity	: Not available.
LogK_{ow}	: Not available.
Solubility	: Easily soluble in cold water, hot water.

Section 10. Stability and Reactivity

Stability and Reactivity	: The product is stable.
Conditions of Instability	: Not available.
Incompatibility with Various Substances	: Reactive with oxidizing agents, acids.
Hazardous Decomposition Products	: Not available.
Hazardous Polymerization	: Will not occur.

Section 11. Toxicological Information

Toxicity Data

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Propylene glycol	LD50	18500 mg/kg	Oral	Rabbit
	LD50	>2080 mg/kg	Oral	quail
	LD50	18350 mg/kg	Oral	Guinea pig
	LD50	20800 mg/kg	Dermal	Rabbit

Chronic Effects on Humans	: Not available.
Other Toxic Effects on Humans	: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant). Non-sensitizer for skin.
Special Remarks on Toxicity to Animals	: Not available.
Special Remarks on Chronic Effects on Humans	: Not available.
Special Remarks on Other Toxic Effects on Humans	: Not available.

Section 12. Ecological Information

Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Propylene glycol	Daphnia magna (EC50)	48 hour(s)	>10000 mg/l
	Pimephales promelas (LC50)	96 hour(s)	710 mg/l
	Pimephales promelas (LC50)	96 hour(s)	55770 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>62000 mg/l

BOD and COD	: Not available.
Biodegradable/OECD	: Not available.
Mobility	: Not available.

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- Products of Degradation** : These products are carbon oxides (CO, CO₂) and water.
- Toxicity of the Products of Biodegradation** : The product itself and its products of degradation are not toxic.
- Special Remarks on the Products of Biodegradation** : Not available.

Section 13. Disposal Considerations

- Waste Information** : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
Canada (TDG)	Not regulated.	-	-	-		-
IMDG Code	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

- NAERG** : Not applicable.

Section 15. Regulatory Information

- WHMIS (Canada)** : Not controlled under WHMIS (Canada).
 CEPA DSL: Propylene glycol
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)

Health	0
Fire Hazard	1
Reactivity	0
Personal Protection	C

National Fire Protection Association (U.S.A.)



- References** : -Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List". - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002. ANSI Z400.1, MSDS Standard, 2001. -Manufacturer's Material Safety Data Sheet.

- Other Special Considerations** : Not available.
- Responsible Name** : **Kemika XXI Inc. +1-450-435-7475**
- Date of issue** : **2004-11-14.**
- Date of Previous Issue** : **No Previous Validation.**
- Version** : 1

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