



Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Personal Protective Equipment
	WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).	

Section 1. Product and Company Identification			
Product Name / Trade name	Varsol	Associated Product's Item Code	13-374HD
Synonym	Petroleum Distillate	CAS #	64742-88-7
Chemical Family	Aliphatic hydrocarbon (Solvent.)	Validation Date	June 26 2006
Chemical Formula	Not applicable. (mixture of hydrocarbons)	Print Date	June 26 2006
Manufacturer	Recochem Inc. 850 Montee de Liesse Montreal, Quebec 514-341-3550	In Case of Emergency	Recochem Inc. Communications and Regulatory Affairs Department (905) 791-1788
Material Uses	Consumer products: Various.		

Section 2. Hazardous Ingredients				
Name	CAS #	% by Weight	Exposure Limits	
			Canadian Values (ACGIH)	U.S. Values (OSHA)
Petroleum distillate	64742-88-7	100	ACGIH (Canada, 2003). TWA: 100 ppm 8 hour(s). TWA: 525 mg/m ³ 8 hour(s).	<small>Petroleum distillate</small> OSHA (United States, 2003). TWA: 500 ppm 8 hour(s). TWA: 2900 mg/m ³ 8 hour(s).

Section 3. Hazard Identification	
Emergency Overview	CAUTION! Combustible liquid. HARMFUL OR FATAL IF SWALLOWED. Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. Keep out of reach of children.
Potential Acute Health Effects	See Section #11: "Toxicological Information" for further human health effects. This product may cause mild irritation to eyes and skin upon contact. Prolonged and repeated contact with skin can cause drying of the skin resulting in irritation and dermatitis. Inflammation of the eye is characterized by mild redness, watering, and itching. Skin inflammation is characterized by mild itching, scaling, reddening. Ingestion can cause burning sensation, vomiting, drowsiness and in severe cases pulmonary edema. Inhalation of excessive amounts may result in impairment, such as drowsiness, lack of coordination, headache and nausea.
Note to Physician	Aspiration hazard if swallowed- can enter lungs and cause damage. Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause mild to severe pulmonary injury and possible death.

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**Section 4. First Aid Measures**

Eye Contact	Rinse with water for a few minutes. 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, get medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Seek medical attention.
Ingestion	DO NOT induce vomiting. Allow the victim to rest in a well-ventilated area. Seek medical attention.

Section 5. Fire Fighting Measures

Products of Combustion	Carbon oxides (CO, CO ₂), smoke, fumes.
Fire Fighting Media and Instructions	Combustible liquid, insoluble in water. SMALL FIRE: Use DRY chemicals, CO ₂ , alcohol foam or water spray. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Fire Hazards	Container explosion may occur under fire conditions or when heated. Vapour may travel considerable distance to source of ignition and flash back. Vigourously supports combustion. Combustible when exposed to heat or flame.
Explosion Hazards	Vapours may travel along ground and flashback along vapour trail.

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill and Leak	Combustible liquid, insoluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Prevent entry into sewers and surface waterways. Absorb with DRY earth, sand or other non-combustible material. Place in appropriate container and dispose of in accordance with regional regulations.

Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.
Storage	See Section #10 for applicable incompatible materials. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents. Keep away from heat. Keep away from sources of ignition. Keep container tightly closed in a cool, well-ventilated place. Keep out of reach of children.

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 threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	
<i>Eyes</i>	Safety glasses.
<i>Body</i>	No special protective clothing is required.
<i>Respiratory</i>	Wear appropriate respirator when ventilation is inadequate. Be sure to use an approved/certified respirator or equivalent.
<i>Hands</i>	Gloves (impervious materials such as Viton®, Neoprene® or butyl rubber).

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**Section 9. Physical and Chemical Properties**

Physical State and Appearance	Liquid.	Odour	Petroleum distillates
Molecular Weight	Not applicable.	Taste	Not available.
pH	Not applicable.	Colour	Colourless.
Boiling/Condensation Point	150 to 210°C (302 to 410°F)	Volatility	100% (v/v), 100% (w/w).
Melting/Freezing Point	-58°C (-72.4°F)	Evaporation Rate	0.1 compared to Butyl acetate.
Specific Gravity	0.79 (Water = 1)	Odour Threshold	Not available.
Vapour Pressure	2.2 mm of Hg (@ 20°C)	Viscosity	Kinetic: 1.14 cS
Vapour Density	4.8 (Air = 1)	Solubility	Easily soluble in diethyl ether, n-octanol. Insoluble in water.
VOC Content	790 (g/l).	Other Properties	Not available.
The Product is:	Combustible.		
Auto-ignition Temperature	229°C (444.2°F)		
Flash Point	Closed cup: 42°C (107.6°F). (Tagliabue. (ASTM D56))		
Flammable Limits	LOWER: 1% UPPER: 13.3%		
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames, sparks and static discharge. This product is combustible if exposed to heat or when involved in a fire and in contact with combustible materials which may act as a wick.		

Section 10. Stability and Reactivity

Stability	The product is stable.
Conditions of Instability	No additional remark.
Incompatibility with Various Substances	Reactive with oxidizing agents.

Section 11. Toxicological Information

Routes of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): >5000 mg/kg [Rat].
Acute Effects on Humans	
<i>Eyes</i>	May cause mild eye irritation.
<i>Skin</i>	May cause mild skin irritation.
<i>Inhalation</i>	Slightly hazardous in case of inhalation. Exposure to very high concentrations can cause dizziness, lightheadness, headache, nausea, and blurred vision. Higher levels may cause unconsciousness.
<i>Ingestion</i>	This product is of very low acute toxicity. Aspiration hazard if swallowed- can enter lungs and cause damage.

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Chronic Effects on Humans	<p>CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.</p> <p>Prolonged and repeated contact with skin can cause drying of the skin resulting in irritation and dermatitis. Effect of chronic exposure include soporific or intoxicating effect if prolonged and in sufficient concentration. Avoid breathing vapour or mist.</p>
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Section 12. Ecological Information

Ecotoxicity	For accidental discharges into environment, see Section #6: "Accidental Release Measures" for suggested instructions.
	No additional remark.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state or provincial and local environmental control regulations.
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Section 14. Transport Information

Canada Transportation of Dangerous Goods (TDG) Information

Primary Class	Class 3: Flammable liquid.
Subsidiary Class (if applicable)	-
Proper shipping name	PETROLEUM DISTILLATES, N.O.S.
Hazard Identification Number	UN 1268
Packing Group	III
Special Provisions	In containers of 450L or less this product is not classified as a Dangerous Goods according to TDG exemption 1.33



International Maritime Dangerous Goods (IMDG) Transportation Information

Primary Class	Class 3: Flammable liquid.
Subsidiary Class (if applicable)	-
Proper shipping name	PETROLEUM DISTILLATES, N.O.S.
Hazard Identification Number	UN 1268
Packing Group	III
Marine Pollutant	Not pollutant.
Special Provisions	In containers of 5 L (5Kg) capacity or less this product is classified as a "Consumer Commodity" under IMDG regulations.



No placard handling and hazard label required.

United States Department of Transportation (DOT) Information

Primary Class	Class 3: Flammable liquid.
Subsidiary class (if applicable)	-
Proper shipping name	PETROLEUM DISTILLATES, N.O.S.



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Hazard Identification Number	UN 1268	
Packing Group	III	
Special Provisions	In containers of 454L or less this product is not classified as a Dangerous Good according to exception 173.150 f(1-2)	
International Air Transport Association (IATA)	For air shipment classification and associated regulations, please refer to the latest edition of IATA Dangerous Goods Regulations.	

Section 15. Other Regulatory Information and Pictograms

WHMIS Classification (Canada)	WHMIS CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).			
Canada Domestic Substances List (DSL) Status	This product and/ or all of its components are on the DSL.			
HCS Classification (U.S.A.)	Combustible liquid			
U.S.A. Regulatory Lists	This product and/ or all of its components are on the TSCA inventory list.			
Hazardous Material Information System (U.S.A.)	Health	1	National Fire Protection Association (U.S.A.)	
	Flammability	2		
	Reactivity	0		
	Personal Protection	G		

Section 16. Other Information

Validated and verified by Compliance and Technical Information Manager on June 26 2006

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Notice to Reader

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MSDS are available at www.recochem.com