



Material Safety Data Sheet

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing
	Not controlled under WHMIS (Canada).	

<i>Section 1. Chemical Product and Company Identification</i>		
Product Name	USED MOTOR OIL	Code File # W384
Supplier	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3	DSL On the DSL list. Print Date: 8/11/2004.
Synonym	Used crank case oil.	In case of Emergency Petro-Canada Emergency Number: (403) 296-3000 Canutec Transportation Emergency: (613) 996-6666 Poison Control Centre Numbers: Consult local telephone directory for emergency number(s).
Chemical Name	Not applicable.	
Chemical Family	Not available.	
Chemical Formula	Not applicable.	
Manufacturer	PETRO-CANADA P.O. Box 2844, Petro-Canada Centre Calgary, Alberta T2P 3E3	Material Uses An oil from industrial and non-industrial sources, which has been acquired for lubricating or other purposes and has become unsuitable for its original purpose due to the presence of impurities or the loss of original properties. Crank case oil drainings from oil filters, cars or trucks are included in this waste category.

<i>Section 2. Composition/Information on Ingredients</i>					
		<i>Exposure Limits (ACGIH)</i>			
Name	CAS #	TLV-TWA(8 h)	STEL	CEILING	% (V/V)
Unburnt gasoline fractions	varies	Not applicable	Not applicable	Not applicable	3-10
Ethylene glycol	107-21-1	Not applicable	Not applicable	50 ppm	will vary
PNAs (various	Not applicable	Not applicable	Not applicable	will vary
Barium	7440-39-3	0.5 mg/m3	Not applicable	Not applicable	will vary
Chlorine	7782-50-5	1.5 mg/m3	Not applicable	Not applicable	will vary
Oxides of nitrogen	varies	Not applicable	Not applicable	Not applicable	will vary
Heavy (trace) metals - may include AS, Cd, Cr, Co, Cu, Fe, Pb, Hg, Mn, Mo, Ni, Se, V, Zn, or their inorganic compounds. The following components may have been found in this waste at concentrations that may meet WHMIS ingredient disclosure criteria or other legislative requirements.	various	Not applicable	Not applicable	Not applicable	will vary

Section 3. Hazards Identification.

Potential Acute Health Effects	Low toxicity on ingestion. Has laxative effect. Mildly irritating to eyes. Negligible breathing hazard at normal temperatures (up to 38 deg C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists, or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.
Potential Chronic Health Effects	Prolonged or repeated contact with skin may cause irritation and possibly dermatitis.

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. DO NOT use an eye ointment. Copious warm water flush - 15 minutes. Physician assessment if eyes inflamed.
Skin Contact	Remove contaminated clothing - launder before reuse. Soap and water wash. Discard saturated leather articles.
Inhalation	Evacuate the victim to a safe area as soon as possible. Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous Inhalation	Not applicable
Ingestion	DO NOT induce vomiting. Force fluids. Activated charcoal tablets.
Hazardous Ingestion	No additional remark.

Section 5. Fire-fighting Measures

The Product is:	Low fire hazard.
Auto-Ignition Temperature	Not available.
Flash Points	Not available.
Flammable Limits	Not available.
Products of Combustion	Smoke on combustion.
Fire Hazards in Presence of Various Substances	Avoid contact with strong oxidizing agents, including peroxides, chlorine and strong acids. Addition of water or foam may cause frothing.
Explosion Hazards in Presence of Various Substances	Do not cut, drill or weld empty containers.
Fire Fighting Media and Instructions	Respiratory and eye protection required for fire fighting personnel. A self contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may be easily extinguished with a portable fire extinguisher, use of a SCBA may not be required. SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam.
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

Section 6. Accidental Release Measures

Small Spill	Contain spill. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents. Do not use combustible material such as sawdust. Scoop up used absorbent and rags into drums. For water spills, try to contain floating material and remove material by skimming or with suitable absorbent. Check with applicable jurisdictions for specific disposal requirements of material and empty containers.
Large Spill	No additional remark.

Section 7. Handling and Storage

Handling	Wash hands after handling and before eating. Launder work clothes frequently. Discard saturated leather goods. Avoid inhalation and skin contact especially when handling used oil. An API study has indicated that prolonged or repeated skin exposure to used motor oils can cause cancer in mice.
Storage	Store in cool, well-ventilated area. May be stored in steel tanks or drums.

Section 8. Exposure Controls/Personal Protection - The selection of personal protective equipment varies, depending upon conditions of use.

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 station and safety shower is proximal to the work-station location.
Personal Protection	Splash goggles. Gloves (impervious). For direct contact of more than 2 hours -- VITON or NITRILE gloves are needed, otherwise, PVC gloves may be used. Wear long sleeved clothing to minimize skin contact. Respirator normally not necessary. If mist generated by heating, spraying, etc. wear approved organic vapour respirator suitable for oil mist in areas with sufficient oxygen.
Personal Protection in Case of a Large Spill	No additional remarks
Exposure Limits	Various

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Viscous liquid.)	Odor	Burnt hydrocarbon.
Dropping Point	Not available.	Taste	Not available.
Penetration (@ 25°C)	Not available.	Color	Black. (Dark.)
Boiling Point	230°C (446°F)		
Melting Point	Not available.		
Specific Gravity	0.8 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Oil / Water Dist. Coeff.	Not available.		
Viscosity (@ 40 °C)	Not available.		
Solubility	Insoluble in cold water.		

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Section 10. Stability and Reactivity

Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions to Avoid	Avoid excessive heat. Formation of oil mist.		
Incompatibility with Various Substances	Highly reactive with oxidizing agents.	Decomposition products:	None known.
Corrosivity	Not applicable		
Special Remarks on Reactivity	Peroxides, chlorine, strong acids, etc.		
Special Remarks on Corrosivity	No additional remark.		

Section 11. Toxicological Information

Routes of Entry	Inhalation. Skin contact.		
Toxicity to Animals	Prolonged and/or repeated contact with used motor oil has caused skin cancer in experimental animals. The relationship of these results to humans has not been fully established.		
Chronic Effects on Humans	Prolonged or repeated contact with skin may cause irritation and possibly dermatitis.		
Other Toxic Effects on Humans	Low toxicity on ingestion. Has laxative effect. Mildly irritating to eyes. Negligible breathing hazard at normal temperatures (up to 38 deg C) or recommended blending temperatures. Elevated temperatures or mechanical action may form vapours, mists, or fumes. Inhalation of oil mists or vapours from hot oil may cause irritation of the upper respiratory tract.		
Special Remarks on Toxicity to Animals	No additional remark.		
Special Remarks on Chronic Effects on Humans	No additional remark.		
Special Remarks on Other Toxic Effects on Humans	No additional remark.		

Section 12. Ecological Information

Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
Products of Biodegradation	Not available.		
Toxicity of the Products of Biodegradation	Not available.		
Special Remarks on the Products of Biodegradation	No additional remark.		

Section 13. Disposal Considerations

Waste Disposal Consult your local or regional authorities. Preferred waste management priorities are: (1) recycle or reprocess; (2) incineration with energy recovery; (3) disposal at licensed waste disposal facility. Ensure that disposal or reprocessing is in compliance with government requirements and local disposal regulations.

Section 14. Transport Information

TDG Classification Not available

Special Provisions for Transport Not available

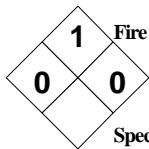
Section 15. Regulatory Information and Pictograms

Other Regulations CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): This product is on the Domestic Substances List (DSL), and is acceptable for use under the provisions of CEPA.

Other Classifications	WHMIS (Canada) Not controlled under WHMIS (Canada).
	DSD/DPD (EEC) Not classified under the Dangerous Substances or Dangerous Preparations Directives.

WHMIS (Canada) (Pictograms)




HMIS (U.S.A.)	Health Hazard	0	NFPA (U.S.A.)	
	Fire Hazard	1		
	Reactivity	0		
	Personal Protection	a		

DSD/DPD (Europe) (Pictograms)



TDG (Canada) (pictograms) Not evaluated for transport
Non évalué pour le transport

DOT (U.S.A) (Pictograms)



Protective Clothing (Pictograms)



Section 16. Other Information

References Available upon request.

Other Special Considerations Note 1: This product is exempted from WHMIS legislation. Regulations do require appropriate identification of the waste and worker education in its handling.
Note 2: The components of this product may have been found in this waste at concentrations that may meet WHMIS ingredient disclosure criteria or other legislative requirements.

Prepared by Administrator on 5/20/1998.

Data entry by Administrator.

Print Date: 8/11/2004.

Information Contact

For Product Safety Information: (905) 804-4752

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.