



WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	TDG (pictograms)
	Not controlled		

Section 1. C	hemical Product and Company Identification	
Product Name	PC SYNTHETIC BLEND AUTOMATIC	Code PCSBATF, 460-858-0
	TRANSMISSION FLUID	
Synonym	Not available	Validated on 1/31/2006.
Manufacturer	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3	In case of Petro-Canada: 403-296- Emergency3000 Canutec Transportation: 613-996-6666
Material Uses	A synthetic blend automatic transmission fluid designed primarily for use in Ford and General Motors vehicles but suitable for use in other vehicle makes and as a hydraulic and power steering fluid in mobile equipment.	directory for emergency

Section 2. Com	position and Information o	on Ingredier	nts			
				Ехро	osure Limits (ACGIH)
	Name	CAS#	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
Mixture of severely hydrotreated and hydrocracked base oil (petroleum) and other proprietary, non-hazardous additives.		Mixture	100	5 mg/m³ (oil mist)	10 mg/m³ (oil mist)	Not established
Manufacturer Recommendation	Not applicable					
Other Exposure Limits	Consult local, state, provincial or territory authorities for acceptable exposure limits.					

Section 3. Haza	ards Identification.
Potential Health Effects	Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis. Not expected to cause more than slight skin or eye irritation. With its relatively low vapour pressure, this product is not expected be inhaled in any appreciable quantity at ambient conditions. If heated to high temperatures or subjected to mechanical actions which produce vapours or mists, inhalation may cause respiratory tract irritation. Ingestion may produce a laxative effect. For more information refer to Section 11 of this MSDS.

Section 4. First	Aid Measures
Eye Contact	No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If irritation persists, obtain medical advice.
Skin Contact	Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for 5 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g., watch bands, belts, etc.). If irritation persists, repeat flushing. Obtain medical advice immediately. Completely decontaminate clothing, shoes and leather goods before reuse or discard.
Inhalation	Remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. DO NOT INDUCE VOMITING. Have victim drink 240 to 300 mL (8 to 10 oz) of water to dilute material in stomach. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical attention.
Note to Physician	Not available

Flammability	May be combustible at high temperature.	Flammable Limits	Not available.	
Flash Points	CLOSED CUP: 160°C (320°F) (Pensky-Martens.) OPEN CUP: 189°C (372.2°F) (Cleveland)	Auto-Ignition Temperature	Fire Point: 212°C (413.6°F)	

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Fire Hazards in Presence of Various Substances	Low fire hazard. This material must be heated before ignition will occur.	Explosion Hazards in Presence of Various Substances	Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.
Products of Combustion	Carbon oxides (CO, CO2), nitrogen oxides (combustion.	NOx), smoke and in	rritating vapours as products of incomplete
Fire Fighting Media and Instructions	NAERG2004, GUIDE 171, Substances (low to fire, ISOLATE for 800 meters (0.5 mile) in all mile) in all directions. Shut off fuel to fire i withdraw from area and let fire burn out under sound from venting safety device or any disconspray in order to prevent pressure build-up, foam, water spray or CO2. LARGE FIRE: use extinguishers may be used, and self contain indoor fires and any significant outdoor fires, for fire fighting personnel.	directions; also, co f it is possible to do er controlled condition blouration of tank du autoignition or expl e water spray, fog of ned breathing appa	nsider initial evacuation for 800 meters (0.5 to so without hazard. If this is impossible, ons. Withdraw immediately in case of rising to to fire. Cool containing vessels with water losion. SMALL FIRE: use DRY chemicals, or foam. For small outdoor fires, portable fire ratus (SCBA) may not be required. For all

Section 6. Accidental Release Measures

Material Release or Spill

Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary. Extinguish all ignition sources. Stop leak if safe to do so. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Collect used absorbent for later disposal. Avoid contact with spilled material. Avoid contaminating sewers, streams, rivers and other water courses with spilled material. Notify appropriate authorities immediately.

Section 7.	Handling and Storage
Handling	Avoid contact with any sources of ignition, flames, heat, and sparks. Avoid skin contact. Avoid eye contact. Avoid inhalation of product vapours or mists. Empty containers may contain product residue. Do not pressurize, cut, heat, or weld empty containers. Do not reuse containers without commercial cleaning and/or reconditioning. Personnel who handle this material should practice good personal hygiene during and after handling to help prevent accidental ingestion of this product. Properly dispose of contaminated leather articles including shoes that cannot be decontaminated.
Storage	Store away from incompatible and reactive materials (See section 5 and 10). Keep container tightly closed. Store in dry, cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering **Controls**

For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. Make-up air should always be supplied to balance air removed by exhaust ventilation. Ensure that eyewash station and safety shower are close to work-station.

Personal Protection - The selection of personal protective equipment varies, depending upon conditions of use. Eyes As a minimum, safety glasses with side shields should be worn when handling this material.

Body If this material may come in contact with the body during handling and use, we recommend wearing appropriate protective clothing to prevent contact with the skin. (Contact your PPE provider for more information.)

Respiratory A NIOSH-approved air-purifying respirator with an organic vapour cartridge or canister with a dust, fume of mist filter (R, or P series) may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. A NIOSHapproved positive-pressure, air-supplied respirator or self-contained breathing apparatus may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Hands If this material may come in contact with the hands during handling and use, we recommend wearing gloves of the following material(s): neoprene, nitrile, polyvinyl alcohol (PVA), fluoro-elastomer. Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

Feet Wear appropriate footwear to prevent product from coming in contact with feet and skin.

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Section 9. Phy	sical and Chemical Properties		
Physical State and Appearance	Viscous liquid.	Viscosity	34.3 cSt @ 40°C (104°F), 7.8 cSt @ 100°C (212°F), VI=208
Colour	Dark red.	Pour Point	-45°C (-49°F)
Odour	No odour or slight petroleum oil like.	Softening Point	Not applicable.
Odour Threshold	Not available.	Dropping Point	Not applicable.
Boiling Point	Not available.	Penetration	Not applicable.
Density	0.8544 kg/L @ 15°C (59°F).	Oil / Water Dist. Coefficient	Not available
Vapour Density	Not available.	Ionicity (in water)	Not available
Vapour Pressure	Negligible at ambient temperature and pressure.	Dispersion Properties	Not available
Volatility	Non-volatile.	Solubility	Insoluble in water.

Section 10. Stability and Reactivity				
Corrosivity	Copper corrosion, 3h, 149°C (ASTM D013	30): 1b.		
Stability	The product is stable under normal handling and storage conditions.	Hazardous Polymerization	Will not occur under normal working conditions.	
Incompatible Substances / Conditions to Avoid	Reactive with oxidizing agents and reducing agents.	Decomposition Products	May release COx, NOx, smoke and irritating vapours when heated to decomposition.	

Section 11. Toxicologica		
Routes of Entry	Skin contact, eye contact, inhalation, and ingestion.	
Acute Lethality	Acute toxicity information is not available for the product as a whole, therefolls are provided below: Acute Oral toxicity (LD50): >5000 mg/kg (rat) Acute Dermal toxicity (LD50): >2000 mg/kg (rabbit) Acute Inhalation toxicity (LC50): >2500 mg/m³/4h (rat)	ore, data for the base
Chronic or Other Toxic Effe	cts	
Dermal Route:	Prolonged or repeated contact may defat and dry skin, and cause dermatitis is expected to cause only slight irritation, if any.	. Short-term exposure
Inhalation Route:	With its relatively low vapour pressure, this product is not expected be inhal quantity at ambient conditions. If heated to high temperatures or subjected which produce vapours or mists, inhalation may cause respiratory tract irritation.	to mechanical actions
Oral Route:	Ingestion of this product may lead to aspiration of the liquid, especially if vomi result in chemical pneumonitis (inflammation of the lungs) and/or pu accumulation of fluid in the lungs). May produce a laxative effect.	
Eye Irritation/Inflammation:	Short-term exposure is expected to cause only slight irritation, if any.	
Immunotoxicity:	Not available.	
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based u and the known hazards of the components.	pon the available data
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitize available data and the known hazards of the components.	ation, based upon the
Mutagenic:	This product is not known to contain any components at >= 0.1% that have I mutagenicity. Therefore, based upon the available data and the kn components, this product is not expected to be a mutagen.	
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have reproductive toxicity. Therefore, based upon the available data and the kcomponents, this product is not expected to be a reproductive toxin.	
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at >= 0.1% that have teratogenicity and/or embryotoxicity. Therefore, based upon the available hazards of the components, this product is not expected to be a teratogen/em	data and the known
Carcinogenicity (ACGIH):	This product is not known to contain any chemicals at reportable quantities th A1 or A2 carcinogens by ACGIH.	at are listed as Group
Carcinogenicity (IARC):	This product is not known to contain any chemicals at reportable quantities th 1, 2A, or 2B carcinogens by IARC.	at are listed as Group
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Carcinogenicity (NTP):	(NTP): This product is not known to contain any chemicals at reportable quantities that are listed carcinogens by NTP.		
Carcinogenicity (IRIS):	This product is not known to contain any chemicals at repor carcinogens by IRIS.	rtable quantities that are listed as	
Carcinogenicity (OSHA):	This product is not known to contain any chemicals at repor carcinogens by OSHA.	rtable quantities that are listed as	
Other Considerations	No additional remark.	·	

Section 12. Ecological Information				
Environmental Fate	Not available	Persistance/ Bioaccumulation Potential	Not available	
BOD5 and COD	Not available.	Products of Biodegradation	Not available.	
Additional Remarks	No additional remark.			

Section 13. Disposal Considerations

Waste Disposal

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Spent/ used/ waste product may meet the requirements of a hazardous waste. Consult your local or regional authorities. Ensure that waste management processes are in compliance with government requirements and local disposal regulations.

Section 14. Transport Information					
TDG Classification Not a hazardous material for transport according to the TDG Regulations. (Canada)	Special Provisions for Transport	Not applicable.			

Section 15. Regulatory Information						
Other Regulations	This product is acceptable for use under the provisions of WHMIS-CPR. All components of this for are listed on the CEPA-DSL (Domestic Substances List).					
	All components of this formulation are listed on the US EPA-TSCA Inventory.					
	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.					
	Please contact Product Safety for more information.					
DSD/DPD (Europe)	For European classification and inventory information please see the European version of this MSDS.	HCS (U.S.A.)	Does not meet the definitions of a health or physical hazard according to the OSHA - Hazard Communication Standard. (United States)			
ADR (Europe) (Pictograms)	NOT EVALUATED FOR EUROPEAN TRANSPORT NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN.	DOT (U.S.A) (Pictograms)				
HMIS (U.S.A.)	Health Hazard 1 NFPA (L	J.S.A.)	Rating Hazard	0 Insignificant		
	Fire Hazard 1		eactivity	1 Slight 2 Moderate		
	Reactivity	Spe	ecific hazard	3 High		
	Personal Protection B	-1		4 Extreme		

Section 16. Other Information References Available upon request. * Marque de commerce de Petro-Canada - Trademark Glossary ACGIH - American Conference of Governmental Industrial Hygienists HCS - Hazardous Communication System ADR - Agreement on Dangerous goods by Road (Europe) HMIS - Hazardous Material Information System ASTM - American Society for Testing and Materials IARC - International Agency for Research on Cancer BOD5 - Biological Oxygen Demand in 5 days IRIS - Integrated Risk Information System CAS - Chemical Abstract Services LD50/LC50 - Lethal Dose/Concentration kill 50% CEPA - Canadian Environmental Protection Act LDLo/LCLo - Lowest Published Lethal Dose/Concentration CERCLA - Comprehensive Environmental Response, Compensation NFPA - National Fire Prevention Association and Liability Act NIOSH - National Institute for Occupational Safety & Health NPRI - National Pollutant Release Inventory CFR - Code of Federal Regulations CHIP - Chemical Hazard Information and Packaging Approved Supply NSNR - New Substances Notification Regulations (Canada)

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PC SYNTHETIC BLEND AUTOMATIC TRANSMISSION FLUID Page Number: 5 List NTP - National Toxicology Program COD - Chemical Oxygen Demand OSHA - Occupational Safety & Health Administration **CPR - Controlled Products Regulations** PEL - Permissible Exposure Limit DOT - Department of Transportation (U.S.A.) RCRA - Resource Conservation and Recovery Act DSCL - Dangerous Substances Classification and Labeling (Europe) SARA - Superfund Amendments and Reorganization Act DSD/DPD - Dangerous Substance or Dangerous Preparations STEL - Short Term Exposure Limit (15 minutes) Directives (Europe) TDG - Transportation Dangerous Goods (Canada) DSL - Domestic Substance List (Canada) TDLo/TCLo - Lowest Published Toxic Dose/Concentration EEC/EU - European Economic Community/European Union TLV-TWA - Threshold Limit Value-Time Weighted Average EINECS - European Inventory of Existing Commercial Chemical TLm - Median Tolerance Limit Substances TSCA - Toxic Substances Control Act

For Copy of MSDS

FDA - Food and Drug Administration

The Canadian Controlled Products Regulations (CPR) (Under the Hazardous Products Act, part of the WHMIS legislation) only apply to WHMIS Controlled (i.e., hazardous) products. Therefore, the CPR and the 3-year update rule specified therein do not apply to WHMIS Non-Controlled products. Although this is true, customarily Petro-Canada reviews and updates Non-Controlled product MSDS if a customer requests such an update. These Non-Controlled product updates are given a lower priority than Controlled products but are handled as soon as practicable. If you would like to verify if the MSDS you have is the most current, or you require any further information, please contact:

Internet: www.petro-canada.ca/msds

Lubricants:

Western Canada, telephone: 1-800-661-1199; fax: (780) 464-9564

EPCRA - Emergency Planning And Community Right-To-Know Act

FIFRA - Federal Insecticide, Fungicide, and Rodenticide Act

Ontario & Central Canada, telephone: 1-800-268-5850 and (905) 822-4222; fax:

1-800-201-6285

Quebec & Eastern Canada, telephone: 1-800-576-1686; fax: 1-800-201-6285

For Product Safety Information: (905) 804-4752

Prepared by Product Safety - JDW on 1/31/2006.

Data entry by Product Safety - JDW.

USEPA - United States Environmental Protection Agency

WHMIS - Workplace Hazardous Material Information System

USP - United States Pharmacopoeia

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