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I	WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	TDG (pictograms)
		Not controlled	₩ 🗯	

Section 1. Ch	Section 1. Chemical Product and Company Identification				
Product Name	DURON* SINGLE GRADE OILS SAE VISCOSITY GRADES 10W, 20, 30, 40, 50	Code	420-054, DUR1 420-055, DUR2 420-056, DUR3 420-057, DUR4 420-058, DUR5		
Synonym	Not available	Validated o	n 11/6/2001.		
Manufacturer	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3	In case of Emergency	Petro-Canada: 403-296-3000 Canutec Transportation: 613-996-6666 Poison Control Centre: Consult		
Material Uses	DURON* single grade oils are intended for use in diesel and spark ignition engines according to the specific viscosity grade and performance level for each grade of product. They may also be used for wet clutch and gear type transmissions and hydraulic systems in line with equipment builder specifications.		local telephone directory for emergency number(s).		

Section 2. Composition and Information on Ingredients					
		Exposure Limits (ACGIH)			1
Name	CAS#	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
1) Severely hydrotreated paraffinic oil and additives	Mixture	100	5 mg/m³ (oil mist)	10 mg/m³ (oil mist)	Not established
Manufacturer Not applicable Recommendation					
Other Exposure Limits Consult local, state, provincial or territory authorities for acceptable exposure limits.					

Section 3. Haza	Section 3. Hazards Identification.		
Potential Health Effects	Non irritating to slight transient irritation to skin and eyes, but no permanent damage. Relatively non-toxic via ingestion. This product has a low vapour pressure and is not expected to present an inhalation exposure at ambient conditions. Upon heating to high temperatures, or mechanical actions which may produce vapours or mists, inhalation of product may cause irritation of the breathing passages. For more information, refer to Section 11.		

Section 4. First Aid Measures			
Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.		
Skin Contact	Remove contaminated clothing - launder before reuse. Wash gently and thoroughly the contaminated skin with running wat and non-abrasive soap. Seek medical attention.		
Inhalation Evacuate the victim to a safe area as soon as possible. If the victim is not breathing, perform artificial respiration. victim to rest in a well ventilated area. Seek medical attention.			
Ingestion	DO NOT induce vomiting because of danger of aspirating liquid into lungs. Seek medical attention.		
Note to Physician	Not available		

Flammability	May be combustible at high temperature.	Flammable Limits	Not available.
Flash Points	CLOSED CUP: ≥195°C (383°F) (Pensky-Martens) OPEN CUP: ≥215°C (419°F) (Cleveland)	Auto-Ignition Temperature	Fire Point: ≥235°C (455°F)
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 (NOx incomplete combustion.), sulphur oxides (SC	0x), smoke and irritating vapours as products of

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DURON* SINGLE GR	ADE OILS SAE VISCOSITY GRADES 10W, 20, 30, 40, 50	Page Number: 2
Fire Fighting Media and Instructions	NAERG96, GUIDE 171, Substances (low to moderate hazard). If tar for 800 meters (0.5 mile) in all directions; also, consider initial evacuat fuel to fire if it is possible to do so without hazard. If this is imposs controlled conditions. Withdraw immediately in case of rising sound fr due to fire. Cool containing vessels with water spray in order to prever FIRE: use DRY chemicals, foam, water spray or CO2. LARGE FIRE: portable fire extinguishers may be used, and self contained breathing fires and any significant outdoor fires, SCBA is required. Respirat personnel.	tion for 800 meters (0.5 mile) in all directions. Shut off sible, withdraw from area and let fire burn out under from venting safety device or any discolouration of tank not pressure build-up, autoignition or explosion. SMALL use water spray, fog or foam. For small outdoor fires, apparatus (SCBA) may not be required. For all indoor

NAERG96, GUIDE 171, Substances (low to moderate hazard). ELIMINATE ALL IGNITION SOURCES. Avoid contact. Stop

leak if without risk. Contain spill. Absorb with inert absorbents, dry clay, or diatomaceous earth. Avoid inhaling dust of

diatomaceous earth for it may contain silica in very fine particle size, making this a potential respiratory hazard. Place used absorbent in closed metal containers for later disposal or burn absorbent in a suitable combustion chamber. DO NOT FLUSH TO SEWERS, STREAMS OR OTHER BODIES OF WATER. Check with applicable jurisdiction for specific disposal

Section 6. Accidental Release Measures

Material Release

or Spill

	requirements of spilled material and empty containers. Notify the appropriate authorities immediately.		
Section 7. Handling and Storage			
Handling	Avoid inhalation and skin contact especially when handling used oil. Keep away from sources of ignition. DO NOT reuse empty containers without commercial cleaning or reconditioning. Practice good personal hygiene. Wash hands after handling and before eating. Launder work clothes frequently. Discard saturated leather goods.		
Storage	Store in tightly closed containers in cool, dry, isolated, well-ventilated area, and away from incompatibles.		

Section 8. Exposu	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.			
	The selection of personal protective equipment varies, depending upon conditions of use. Eye protection (i.e., safety glasses, safety goggles and/or face shield) should be determined based on conditions of use. If product is used in an application where splashing may occur, the use of safety goggles and/or a face shield should be considered.			
Body	Wear appropriate clothing to prevent skin contact. As a minimum long sleeves and trousers should be worn.			
Respiratory	Where concentrations in air may exceed the occupational exposure limits given in Section 2 (and those applicable to your area) and where engineering, work practices or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.			
Hands	Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.			
Feet	Wear appropriate footwear to prevent product from coming in contact with feet and skin.			

Section 9. Physical and Chemical Properties				
Physical State and Appearance	Viscous liquid.	Viscosity	10W: 40 cSt @ 40°C (104°F) 20: 65 cSt @ 40°C (104°F) 30: 83 cSt @ 40°C (104°F) 40: 131 cSt @ 40°C (104°F) 50: 209 cSt @ 40°C (104°F)	
Colour	Amber.	Pour Point	10W: -42°C 20: -39°C 30: -36°C 40: -30°C 50: -21°C	
Odour	Mild petroleum oil like.	Softening Point	Not applicable.	
Odour Threshold	Not available.	Dropping Point	Not applicable.	
Boiling Point	Not available.	Penetration	Not applicable.	
Density	0.8604 to 0.8881 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.	

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Section 10. Stabili	Section 10. Stability and Reactivity		
Corrosivity 30, 40: Copper corrosion, 3h, 100°C (ASTM D0130): 1b. 10W, 20, 50: Copper corrosion, 3h, 100°C (ASTM D0130): 1a.			
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, acids, halogens and halogen compounds.	Decomposition Products	May release COx, SOx, H2S, CaOx, ZnOx, alkyl mercaptans, sulfides, aldehydes, methacrylate monomers, smoke and irritating vapours when heated to decomposition.

Section 11. Toxicological Information				
Routes of Entry	Skin contact, eye contact, inhalation and ingestion.			
Acute Lethality	Based on toxicity of components. 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).			
Chronic or Other Toxic Effects Dermal Route:	Prolonged or repeated contact may cause skin irritation characterized by dermatitis or oil acne.			
Inhalation Route:	Negligible breathing hazard at normal temperatures (up to 38°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.			
Oral Route:	Low toxicity; has laxative effect.			
Eye Irritation/Inflammation:	Repeated or prolonged contact may cause transient irritation, but no permanent damage.			
Immunotoxicity:	Not available.			
Skin Sensitization:	This product is not expected to be a skin sensitizer, based on the available data and the known hazards of the components.			
Respiratory Tract Sensitization:	This product is not expected to be a respiratory tract sensitizer, based on the available data and the known hazards of the components.			
Mutagenic:	Based on actual test results of base oils and results of similar products, severely hydrotreated base oils give negative results when tested for: (a) Salmonella Typhimurium TA98 using the Modified Ames Assay for Petroleum Product; (b) Salmonella-Escherichia coli/Mammalian-Microsome Reverse Mutation Assay (Ames test) with a Confirmatory Assay; (c) Structural Chromosomal Aberrations in Chinese Hamster Ovary (CHO) Cells.			
Reproductive Toxicity:	This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.			
Teratogenicity/Embryotoxicity:	This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.			
Carcinogenicity (ACGIH):	This product is not known to contain any chemicals at reportable quantities that are listed as A1 or A2 carcinogens by ACGIH.			
Carcinogenicity (IARC):	This product is not known to contain any chemicals at reportable quantities that are listed as group 1, 2A or 2B carcinogens by IARC.			
Carcinogenicity (NTP):	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.			
Carcinogenicity (IRIS):	Not available.			
Carcinogenicity (OSHA):	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by OSHA.			
Other Considerations	No additional remark.			

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

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Section 13. Disposal Considerations

Waste Disposal

Spent/used/waste oil may meet the requirements of a hazardous waste. 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 controlled under TDG (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 formulation are listed on the CEPA-DSL (Domestic Substances List).				
	All components of this formulation are listed on the US EPA-TSCA Inventory.				
	All components of this product are on the European Inventory of Existing Commercial Chemical Substances (EINECS).				
	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)	Not classified under the Dangerous Substances or Dangerous Preparations Directives.	HCS (U.S.A.) Not controlled under the HCS (United States).			
ADR (Europe) (Pictograms)		DOT (U.S.A) (Pictograms)			
HMIS (U.S.A.)	Health Hazard Fire Hazard Reactivity Personal Protection NFPA (U.S	Health Fire Hazard Rating Insignificant Slight Moderate Specific hazard Specific hazard Rating Insignificant Note to the property of			

Section 16. Other Information

References

Available upon request.

* Marque de commerce de Petro-Canada - Trademark

Glossarv

ACGIH - American Conference of Governmental Industrial Hygienists

ADR - Agreement on Dangerous goods by Road (Europe) ASTM - American Society for Testing and Materials (

BOD5 - Biological Oxygen Demand in 5 days CAN/CGA B149.2 Propane Installation Code

CAS - Chemical Abstract Services

CEPA - Canadian Environmental Protection Act

CERCLA - Comprehensive Environmental Response, Compensation and Liability Act

CFR - Code of Federal Regulations

CHIP - Chemicals Hazard Information and Packaging Approved Supply List

COD5 - Chemical Oxygen Demand in 5 days CPR - Controlled Products Regulations

DOT - Department of Transport

DSCL - Dangerous Substances Classification and Labeling (Europe)

DSD/DPD - Dangerous Substances or Dangerous Preparations Directives (Europe)

DSL - Domestic Substance List

EEC/EU - European Economic Community/European Union

EINECS - European Inventory of Existing Commercial Chemical Substances

EPCRA - Emergency Planning and Community Right to Know Act

FDA - Food and Drug Administration

FIFRA - Federal Insecticide, Fungicide and Rodenticide Act

HCS - Hazardous Communication System HMIS - Hazardous Material Information System IARC - International Agency for Research on Cancer IRIS - Integrated Risk Information System
LD50/LC50 - Lethal Dose/Concentration kill 50%

LDLo/LCLo - Lowest Published Lethal Dose/Concentration

NAERG'96 - North American Emergency Response Guide Book (1996)

NFPA - National Fire Prevention Association

NIOSH - National Institute for Occupational Safety & Health

NPRI - National Pollutant Release Inventory NSNR - New Substances Notification Regulations (Canada)

NTP - National Toxicology Program

OSHA - Occupational Safety & Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act SARA - Superfund Amendments and Reorganization Act

SD - Single Dose

STEL - Short Term Exposure Limit (15 minutes)
TDG - Transportation Dangerous Goods (Canada)
TDLo/TCLo - Lowest Published Toxic Dose/Concentration

TLm - Median Tolerance Limit

TLV-TWA - Threshold Limit Value-Time Weighted Average

TSCA - Toxic Substances Control Act

USEPA - United States Environmental Protection Agency

USP - United States Pharmacopoeia

WHMIS - Workplace Hazardous Material Information System

For Copy of MSDS

Lubricants:

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

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: 800-201-6285

For Product Safety Information: (905) 804-4752

Prepared by Product Safety - TAR on 11/6/2001.

Data entry by Product Safety - JDW.

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