Available in French



Continued on Next Page

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

Product Name	DURON* MULTIGRADE ENGINE OIL SAE VISCOSITY GRADES 10W-30, 15W-40	Code	420-051, DUR13 420-053, DUR15
Synonym	Not available	Validated o	n 1/14/2004.
Manufacturer	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3		Petro-Canada: 403-296-3000 Canutec Transportation: 613-996-6666 Poison Control Centre: Consul local telephone directory for
Material Uses	DURON* multigrade engine oils may be used in a wide range of compression and spark ignition engines in mobile and stationary equipment. They may also be used in many types of wet clutch transmissions and hydraulic systems.		emergency number(s).

				Ex	posure Limits (ACGIH)	15
	Name	CAS#	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
Mixture of severely hydrotreated and hydrocracked base oil (petroluem) 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	rds Identification.
Potential Health Effects	Not expected to cause more than slight skin or eye irritation. Prolonged or repeated contact may cause skin irritation defatting, drying and dermatitis. With its relatively low vapour pressure, this product is not expected be inhaled in an 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.

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 water 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. Allow the 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	DUR13: OPEN CUP: 231°C (448°F) (Cleveland) DUR15: OPEN CUP: 225°C (437°F) (Cleveland)	Auto-Ignition Temperature	Fire Point: DUR13: 257°C (495°F) DUR15: 241°C (466°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) products of incomplete combustion.	, sulphur oxides (SOx	x), CaOx, ZnOx, smoke and irritating vapours as

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DURON* MULTIGRA 15W-40	DE ENGINE OIL SAE VISCOSITY GRADES 10W-30,	Page Number: 2
Fire Fighting Media and Instructions	NAERG96, GUIDE 171, Substances (low to moderate hazard). If tank, refor 800 meters (0.5 mile) in all directions; also, consider initial evacuation off fuel to fire if it is possible to do so without hazard. If this is impossible controlled conditions. Withdraw immediately in case of rising sound from tank due to fire. Cool containing vessels with water spray in order to pre SMALL FIRE: use DRY chemicals, foam, water spray or CO2. LARGE outdoor fires, portable fire extinguishers may be used, and self containing the containing the strength of the containing	n for 800 meters (0.5 mile) in all directions. Shut e, withdraw from area and let fire burn out under m venting safety device or any discolouration of vent pressure build-up, autoignition or explosion. FIRE: use water spray, fog or foam. For small ained breathing apparatus (SCBA) may not be

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.
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.

Store in dry, cool, well-ventilated area. Keep container tightly closed. Store away from incompatible and reactive materials (See section 5 and 10).

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. I 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 you 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. Physi	cal and Chemical Properties		
Physical State and Appearance	Viscous liquid.	Viscosity	DUR13: 74 cSt @ 40°C (104°F) DUR15: 113 cSt @ 40°C (104°F)
Colour	Light amber.	Pour Point	DUR13: -45°C (-49°F) DUR15: -42°C (-44°F)
Odour	Mild petroleum oil like.	Softening Point	Not applicable.
Odour Threshold	Not available.	Dropping Point	Not applicable.
<b>Boiling Point</b>	Not available.	Penetration	Not applicable.
Density	DUR13: 0.8604 kg/L @ 15°C (59°F) DUR15: 0.8733 kg/L @ 15°C (59°F)	Oil / Water Dist. Coefficient	Not available
Vapour Density	Not available.	lonicity (in water)	Not available
Vapour Pressure	Negligible at ambient temperature and pressure.	Dispersion Properties	Not available
Volatility	Non-volatile	Solubility	Insoluble in water.

Section 6. Accidental Release Measures

Storage

DURON* MULTIGRADE EI 15W-40	NGINE OIL SAE VISCOSITY GRADES 10W-30,		Page Number: 3
Section 10. Stabil	ity and Reactivity		
Corrosivity	Copper corrosion, 3h, 100°C (ASTM D0130): 1	b	
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, alkyl mercaptans, sulfides, aldehydes, methacrylate monomers, smoke and irritating vapours when heated to decomposition.

Section 11. Toxicological In		
Routes of Entry	Skin contact, eye contact, inhalation, and ingestion.	
Acute Lethality	Acute toxicity information is not available for the product as a whole, therefore, data for some of the ingredients is provided below:  Acute Oral toxicity (LD50): >5000 mg/kg (rat)  Acute Dermal toxicity (LD50): >2000 mg/kg (rabbit)  Acute Inhalation toxicity (LC50): >2500 mg/m²/4h (rat)	
Chronic or Other Toxic Effects Dermal Route:	Short-term exposure is expected to cause only slight irritation, if any. Prolonged or repeated contact may detat and dry skin, and cause dermatitis.	
Inhalation Route:	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.	
Oral Route:	Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an 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 upon the available data known hazards of the components.	
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.	
Mutagenic: This product is not known to contain any components at >= 0.1% that have been sh mutagenicity. Therefore, based upon the available data and the known hazards of the coproduct is not expected to be a mutagen.		
Reproductive Toxicity:	This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, 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 been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.	
Carcinogenicity (ACGIH):	This product is not known to contain any chemicals at reportable quantities that are listed as Group 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):	This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.	
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.	

Environmental Fate	Not available	Persistance/ Not available Bioaccumulation Potential
BOD5 and COD	Not available.	Products of Not available.  Biodegradation

DURON* MULTIGRADE ENGINE OIL SAE VISCOSITY GRADES 10W-30, 15W-40		Page Number: 4	
Section 13. Dis	posal Considerations		
Waste Disposal	Spent/ used/ waste product may meet the requirements of a hazardous waste Ensure that waste management processes are in compliance with gove regulations		

Section 14. Trans	sport Information		
TDG Classification		Special Provisions for Transport	Not applicable.

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.			
	This product has been classified in ac the MSDS contains all of the information. Please contact Product Safety for more	on required by the CPR.	ria of the Controlled Produc	cts Regulations (CPR) and
DSD/DPD (Europe)	Not classified under the Dangerous Substances or Dangerous Preparation Directives.	HCS (U.S.A.)	Does not meet the definition physical hazard accord Communication Standard	ing to the OSHA - Hazard
ADR (Europe) (Pictograms)	NOT EVALUATED FOR EUROPEAN TRANSPORT NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN.	DOT (U.S.A) (Pictograms)	$\otimes$	
HMIS (U.S.A.)		FPA (U.S.A.)	Fire Hazard Rating Reactivity Specific hazard	0 Insignificant 1 Slight 2 Moderate 3 High 4 Extreme

Date of the Court		
References	Available upon request.  * Margue de commerce de Petro-Canada - Trader	mark
ADR - Agreement of ASTM - American S BOD5 - Biological O CAN/CGA B149.2 CAS - Chemical Abs CEPA - Canadian E CERCLA - Compres Act CFR - Code of Feder CHIP - Chemicals F COD5 - Chemical O CPR - Controlled Pr DOT - Department of DSCL - Dangerous DSD/DPD - Dangi (Europe) DSL - Domestic Sut EEC/EU - Europear EINECS - Europear EINECS - Europear F CPA - Food and Dr. FIFRA - Federal Ins HCS - Hazardous O HMIS - Hazardous O HMIS - Hazardous O CANICGAN - Food CHIS - Hazardous O CANICGAN -	invironmental Protection Act hensive Environmental Response, Compensation and Liability and Regulations lazard Information and Packaging Approved Supply List bygen Demand in 5 days roducts Regulations of Transport Substances Classification and Labeling (Europe) erous Substances or Dangerous Preparations Directives between the Economic Community/European Union Inventory of Existing Commercial Chemical Substances by Planning and Community Right to Know Act	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 Fire 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

The Canadian Controlled Products Regulations (CPR) (Under the Hazardous Products Act, Data entry by Product Safety - JDW. 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:

Prepared by Product Safety - JDW on 1/14/2004.

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Internet: www.petro-canada.ca/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	

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