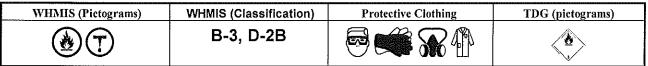
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Product Name	DIESEL FUEL	Code	W104, W293; SAP: 120, 121, 122, 287
Synonym	Seasonal Diesel, #1 Diesel, #2 Heating Oil, #1 Heating Oil, D50, P50, Arctic Diesel, Farm Diesel, Marine Diesel, Low Sulphur Diesel, LSD, Ultra Low Sulphur Diesel, ULSD, Mining Diesel, Naval Distillate, Dyed Diesel, Marked Diesel, Coloured Diesel		on 2/5/2007.
Manufacturer	PETRO-CANADA P.O. Box 2844 150 – 6th Avenue South-West Calgary, Alberta T2P 3E3	In case of Emergency	Canutec Transportation: 613-996-6666 Poison Control Centre:
Material Uses	Diesel fuels are distillate fuels suitable for use in high and medium speed internal combustion engines of the compression ignition type. Mining Diesel has a higher flash point requirement, for safe use in underground mines.		Consult local telephone directory for emergency number(s).

Section 2. Con	position and Information o	on Ingredients	i			
	WALLET TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE T			Ехро	sure Limits (ACGIH)	
	Name	CAS#	% (V/V)	TLV-TWA(8 h)	STEŁ	CEILING
Distillates (petroleum Kerosine (petroleum Fuels, diesel Fuel oil no. 2	n), hydrodesulfurized middle), hydrodesulfurized	64742-80-9 64742-81-0 68334-30-5 68476-30-2	100	Not established 200 mg/m³ 100 mg/m³ 100 mg/m³	Not established Not established	Not established Not established Not established Not established
Manufacturer Recommendation	Avoid prolonged or repeate associated with an increased			els which can lead t	o dermal irritation	on and may be
Other Exposure Limits	Consult local, state, provincia	l or territory auth	orities for ac	cceptable exposure lin	nits.	

Section 3. Hazards Identification.		
Potential Health Effects	Combustible liquid. Exercise caution when handling this material. Contact with this product may cause skin and eye irritation. Prolonged or repeated contact may cause skin irritation, defatting, drying and dermatitis. Inhalation of this product may cause respiratory tract irritation and Central Nervous System (CNS) Depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may cause gastro-intestinal irritation. Aspiration of this product may result in severe irritation or burns to the respiratory tract. For more information refer to Section 11 of this MSDS.	

Eye Contact	Avoid direct contact. Quickly and gently blot or brush away chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes or until the chemical is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately.
Skin Contact	Avoid direct contact. Wear chemical resistant protective clothing if necessary. Quickly and gently, blot or brush away excess chemical. Wash gently and thoroughly with warm water and non-abrasive soap for 15-20 minutes or until chemical is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g., watch bands, belts, etc.). Obtain medical attention immediately. Completely decontaminate clothing shoes and leather goods before reuse or discard.
Inhalation	Take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Immediately transport victim to an emergency care facility.

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Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. 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, have victim lean forward to reduce risk of aspiration. Repeat administration of water. If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Quickly transport victim to an emergency care facility.
Note to Physician	Not available.

Section 5. Fire	fighting Measures	The second secon	
Flammability	Combustible liquid.	Flammable Limits	Lower: 0.7% Upper: 6%
Flash Points	Diesel Fuel: Closed Cup: ≥45°C (113°F) Marine Diesel Fuel: Closed Cup: ≥64°C (147°F) Mining Diesel: Closed Cup: ≥52°C (126°F)	Auto-Ignition Temperature	225°C (437°F)
Fire Hazards in Presence of Various Substances	Flammable in presence of open flames, sparks, and heat. Vapours are heavier than air and may travel considerable distance to sources of ignition and flash back. This product can accumulate static charge and ignite.	Hazards in	Containers may explode in heat of fire. Do not cut, weld, heat, drill or pressurize empty container. Runoff to sewer may create fire or explosion hazard.
Products of Combustion	Carbon oxides (CO, CO2), nitrogen oxides (No irritating vapours as products of incomplete co See Section 11 (Other Considerations) for info	moustion.	
Fire Fighting Media and Instructions	NAERG2004, GUIDE 128, Flammable liquids (Non-polar/Water-immiscible). CAUTION: This product has a moderate flash point above 40°C: Use of water spray when fighting fire may be inefficient.		
	If tank, rail car or tank truck is involved in a consider initial evacuation for 800 meters (1/2		
	SMALL FIRES: Dry chemical, CO2, water spra LARGE FIRES: Water spray, fog or regular area if you can do it without risk. Fires Involving Tanks or Car/Trailer Loads: Fig monitor nozzles.	foam. Do not use s	•
	Cool containers with flooding quantities of warising sound from venting devices or any disc For massive fire, use unmanned hose holders let fire burn. Wear positive pressure self-corrective clothing will only provide limited protective.	olouration of tank. As or monitor nozzles; ontained breathing	ALWAYS stay away from the ends of tanks. if this is impossible withdraw from area and

Section 6. Accidental Release Measures

Material Release or Spill

Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary. IN THE EVENT OF A LARGE SPILL CONSIDER THE FOLLOWING CONTROL MEASURES: Extinguish all ignition sources. Evacuate non-essential personnel. Ventilate area. 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. Ground and bond all equipment used to clean up the spilled material, as it may be a static accumulator. Avoid contact with spilled material. Avoid breathing vapours or mists of material. Avoid contaminating sewers, streams, rivers and other water courses with spilled material. Notify appropriate authorities immediately. Ensure clean-up personnel wear appropriate personal protective equipment.

Section 7.	Handling and Storage
Handling	COMBUSTIBLE MATERIAL. Handle with care. Avoid contact with any sources of ignition, flames, heat, and sparks. Ensure all equipment is grounded/bonded. Avoid skin contact. Avoid eye contact. Avoid inhalation of product vapours or mists. Wear proper personal protective equipment (See Section 8). Avoid confined spaces and areas with poor ventilation. 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 heat and sources of ignition. Store in dry, cool, well-ventilated area. Store away from incompatible and reactive materials (See section 5 and 10). Ensure the storage containers are grounded/bonded.

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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. 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 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 may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Hands If this material may come in contact with the hands during handling and use, we recommend wearing gloves of the following material(s): nitrile, neoprene, 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.

Section 9. Phy	sical and Chemical Properties		
Physical State and Appearance	Bright oily liquid.	Viscosity	1.3 - 4.4 cSt @ 40°C (104°F)
Colour	Clear to yellow / brown (may be dyed for taxation purposes).	Pour Point	Not available.
Odour	Mild petroleum oil like.	Softening Point	Not available.
Odour Threshold	Not available.	Dropping Point	Not available.
Boiling Point	150 to 371°C (302 to 699.8°F)	Penetration	Not available.
Density	0.8 to 0.88 kg/L @ 15°C (59°F)	Oil / Water Dist. Coefficient	Not available.
Vapour Density	4.5 [Air = 1]	Ionicity (in water)	Not available.
Vapour Pressure	1 kPa (7.5 mm Hg) @ 20°C (68°F)	Dispersion Properties	Not available.
Volatility	Semivolatile to volatile.	Solubility	Insoluble in cold water, soluble in non-polar hydrocarbon solvents.

Section 10. Stat	oility and Reactivity		
Corrosivity	Not available.		
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 acids.	Decomposition Products	May release COx, NOx, SOx, H2S, smoke and irritating vapours when heated to decomposition.

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:
	<u>Distillates (petroleum), hydrodesulfurized middle (64742-80-9):</u> Acute Inhalation toxicity (LC50): 4600 mg/m³/4h (rat)
	Kerosine (petroleum), hydrosulfurized (64742-81-0); Acute Oral toxicity (LD50): >5000 mg/kg (rat) Acute Dermal toxicity (LD50): >2000 mg/kg (rabbit) Acute Inhalation toxicity (LC50): >5000 mg/m³/4h (rat)
	Fuels, diesel (68334-30-5): Acute Oral toxicity (LD50): 7500 mg/kg (rat) Acute Dermal toxicity (LD50): 24500 mg/kg (mouse)

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	Fuel oil no. 2 (68476-30-2): Acute Oral toxicity (LD50): 12000 mg/kg (rat)
Chronic or Other Toxic Effects Dermal Route:	This product contains a component (at >= 1%) that can cause skin irritation. Therefore, this product is considered to be a skin irritant. Prolonged or repeated contact may defat and dry skin, and cause dermatitis. (See Other Considerations)
Inhalation Route:	Inhalation of this product may cause respiratory tract irritation. Inhalation of this product may cause Central Nervous System (CNS) Depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death.
Oral Route:	Ingestion of this product may cause gastro-intestinal irritation. Aspiration of this product may result in severe irritation or burns to the respiratory tract. Ingestion of this product may cause Central Nervous System (CNS) Depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death.
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 and the 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 shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the 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 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):	Considered to be A3 by the ACGIH (Kerosine (petroleum), hydrodesulfurized; Fuels, diesel; Fuel oil no. 2) (See Other Considerations)
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	Avoid prolonged or repeated skin contact to diesel fuels which can lead to dermal irritation and may be associated with an increased risk of skin cancer. Diesel engine exhaust particulate is probably carcinogenic to humans (IARC Group 2A).

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

Section 14. Trai	nsport Information	
TDG Classification	DIESEL FUEL, 3, UN1202, PGIII (CL-TDG)	Special Provisions See Transportation of Dangerous Goods for Transport Regulations.

local disposal regulations.

Section 15. Rea	ulatory Information		e e e conset de		
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 evaluated.	HCS (U.S.A.)	CLASS: Irritating substance. CLASS: Target organ effects. CLASS: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).		
ADR (Europe) (Pictograms)	NOT EVALUATED FOR EUROPEAN TRANSPORT	DOT (U.S.A) (Pictograms)	Not evaluated for transport		
	NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN.	(2 totogetime)	Non évalué pour le transport		
HMIS (U.S.A.)	Health Hazard (2*) Fire Hazard (2) Reactivity (0) Personal Protection (H)	Health 2 0 R	Rating 0 Insignificant Hazard I Slight eactivity 2 Moderate cific hazard 3 High 4 Extreme		

Section 16. Other Information Available upon request. References 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 CAS - Chemical Abstract Services IRIS - Integrated Risk Information System LD50/LC50 - Lethal Dose/Concentration kill 50% LDLo/LCLo - Lowest Published Lethal Dose/Concentration CEPA - Canadian Environmental Protection Act CERCLA - Comprehensive Environmental Response, Compensation and NFPA - National Fire Prevention Association Liability Act NIOSH - National Institute for Occupational Safety & Health CFR - Code of Federal Regulations NPRI - National Pollutant Release Inventory CHIP - Chemical Hazard Information and Packaging Approved Supply List NSNR - New Substances Notification Regulations (Canada) NTP - National Toxicology Program OSHA - Occupational Safety & Health Administration COD - Chemical Oxygen Demand PEL - Permissible Exposure Limit CPR - Controlled Products Regulations 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 Directives STEL - Short Term Exposure Limit (15 minutes) TDG - Transportation Dangerous Goods (Canada) (Europe) 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 TSCA - Toxic Substances Control Act Substances EPCRA - Emergency Planning And Community Right-To-Know Act USEPA - United States Environmental Protection Agency FDA - Food and Drug Administration USP - United States Pharmacopoeia FIFRA - Federal Insecticide, Fungicide, and Rodenticide Act WHMIS - Workplace Hazardous Material Information System Prepared by Product Safety - JDW on 2/5/2007. For Copy of MSDS

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Internet: www.petro-canada.ca/msds	Data entry by Product Safety - JDW.
Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-1228	
For Product Safety Information: (905) 804-4752	

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