

Available in French



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WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	TDG (pictograms)
(b) (7)	B-3, D-2B		/ 6

Section 1. Chemical Product and Company Identification				
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	on Ingredients	;			
			Exposure Limits (ACGIH)			
	Name	CAS#	% (V/V)	TLV-TWA(8 h)	STEL	CEILING
Distillates (petroleum), hydrodesulfurized middle Kerosine (petroleum), hydrodesulfurized Fuels, diesel Fuel oil no. 2		64742-80-9 64742-81-0 68334-30-5 68476-30-2	100	Not established 200 mg/m³ 100 mg/m³ 100 mg/m³		
Manufacturer Recommendation	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.					
Other Exposure Limits	Consult local, state, provincial or territory authorities for acceptable exposure limits.					

Section 3. Haz	ards 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; come 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 hearth 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.

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 Presence of	Containers may explode in heat of fire. Do not cut, weld, heat, drill or pressurize empty container. Ruroff 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	mbustion.	
Fire Fighting Media and Instructions			
	If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.		
	SMALL FIRES: Dry chemical, CO2, water spray or regular foam. LARGE FIRES: Water spray, fog or regular foam. Do not use straight streams. Move containers from fi area if you can do it without risk. Fires Involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders monitor nozzles.		
	Cool containers with flooding quantities of warising sound from venting devices or any discrete for massive fire, use unmanned hose holders let fire burn. Wear positive pressure self-or protective clothing will only provide limited protective.	olouration of tank. // 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 Gulde 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
[landling	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. Physical 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. Stability 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.

Acut Acut Acut <u>Fuel</u> Acut	te Oral toxicity (LD50): >5000 mg/kg (rat) te Dermal toxicity (LD50): >2000 mg/kg (rabbit) te Inhalation toxicity (LC50): >5000 mg/m³/4h (rat) is, diesel (68334-30-5): te Oral toxicity (LD50): 7500 mg/kg (rat) te Dermal toxicity (LD50): 24500 mg/kg (mouse)
Acut Acut	te Oral toxicity (LD50); >5000 mg/kg (rat) te Dermal toxicity (LD50): >2000 mg/kg (rabbit)
Kere	osine (petroleum), hydrosulfurized (64742-81-0);
	illates (petroleum), hydrodesulfurized middle (64742-80-9): le Inhalation toxicity (LC50): 4600 mg/m³/4h (rat)
Acute Lethality Acuingre	te toxicity information is not available for the product as a whole, therefore, data for some of the edients is provided below:
Routes of Entry Skir	contact, eye contact, inhalation and ingestion.

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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 Truct 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.
Cardinogenicity (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 ava	ailable.	Persistance/ Bioaccumulation Potential	Not available.	,
BOD5 and COD Not ava	ailable.	Products of Biodegradation	Not available.	

Section 13. Disposal Considerations

Waste Disposal

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 DIESEL FUEL, 3, UN1202, PGIII (CL- Special Provisions for Transport Provisions)

TDG) Special Provisions For Transport Regulations.

Section 15. Regulatory Information This product is acceptable for use under the provisions of WHMIS-CPR. All components of this formulation are Other listed on the CEPA-DSL (Domestic Substances List). Regulations 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 NOT EVALUATED FOR EUROPEAN TRANSPORT ADR (Europe) DOT (U.S.A) Not evaluated for transport (Pictograms) (Pictograms) NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN Non évalué pour le transport Health Hazard 2* Rating HMIS (U.S.A.) NFPA (U.S.A.) 0 Insignificant Fire Hazard 1 Slight Fire Hazard 2 Health 0 Reactivity 2 Moderate ۵ Reactivity 3 High Specific bazard Personal Protection 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 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 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 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 Directives STEL - Short Term Exposure Limit (15 minutes) (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 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 For Copy of MSDS Prepared by Product Safety - JDW on 2/5/2007.

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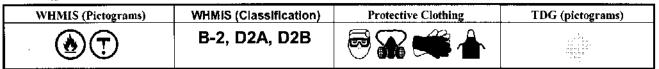
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Internet: www.petro-canada.ca/msds	Data entry by Product Safety - JDW.
Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-1228	
For Product Safety Information: (905) 804-4752	

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.





Section 1. C	hemical Product and Company Identification		
Product Name	NAPHTHA (SWEET)	Code	W344
Synonym	Light Naphtha, Heavy Naphtha, Straight Run Naphtha, Reformer Feed, Platformer Feed, Heavy Straight Run Naphtha, Hydrodesulfurized Naphtha, Hydrotreated Naphtha, Light Straight Run Gasoline.		on 6/20/2006.
Manufacturer	PETRO-CANADA P.O. Box 2844 150 – 6th Avenue South-West Calgary, Alberta T2P 3E3	In case of Petro-Canada: 403-2 Emergency 3000 Canutec Transportation: 613-996-6666 Poison Control Cen	
Material Uses	Light and heavy naphthas are intermediate refinery products used as feedstocks to platformer units for the production of high octane motor gasoline blending components.		Consult local telephon directory for emergeno number(s).

			Exp	osure Limits (ACGHI)	
Name	CAS#	% (V/V)	TLV-TWA(8 h)	STEL	CEILING
Complex mixture of aliphatic and aromatic hydrocarbons (C4-C12)	64741-69-1, 64741-42-0, 64741-41-9, 64741-46-4, 64741-78-2	>85	Not established	Not established	Not established
Toluene	108-88-3	<7	50 ppm	Not established	Not established
Xylene (mixed isomers)	1330-20-7	<6	100 ppm	150 ppm	Not established
Benzene	71-43-2	<2	0.5 ppm	2.5 ppm	Not established
Manufacturer Not applicable Recommendation	-				
Other Exposure Consult local, state, provide Limits	ncial or territory auth	orities for a	cceptable exposure li	mits.	

Section 3. Hazards Identification.			
Potential Health Effects	Flammable liquid. Exercise caution when handling this material. May cause cancer. May cause teratogenicity/embryotoxicity. May cause heritable genetic effects (mutagenicity). This product contains an ingredient or ingredients, which have been shown to cause chronic toxic effects. Contact with this product may cause skin and eye irritation. 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.

NAPHTHA (SWEET)	Page Number: 2
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, 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	Section 5. Fire-fighting Measures				
Flammability	Class I - flammable liquid (NFPA).	Flammable Limits	LOWER: 1%, UPPER: 7.5%		
Flash Points	CLOSED CUP: <-18°C (<-0.4°F), NFPA.	Auto-Ignition Temperature	288°C (550°F), NFPA.		
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. May accumulate in confined spaces.	Hazards in	Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire.		
Products of Combustion	Carbon oxides (CO, CO2), reactive hydrocaproducts of incomplete combustion.	arbons, aldehydes,	ketones, smoke and irritating vapours as		
Fire Fighting Media and Instructions	NAERG2004 GUIDE 128, Flammable liquids (low flash point: Use of water spray when fight in a fire, ISOLATE for 800 meters (1/2 mile) in mile) in all directions. SMAŁL FIRES: Dry che spray, fog or regular foam. Do not use straigh risk. Fires Involving Tanks or Car/Trailer Loa holders or monitor nozzles. Cool containers wi immediately in case of rising sound from ven from the ends of tanks. For massive fire, use withdraw from area and let fire burn. Wear Structural firefighters' protective clothing will on	ng fire may be inefficall directions; also comical, CO2, water spit streams. Move conds: Fight fire from the flooding quantities ting devices or any unmanned hose hose positive pressure.	cient. If tank, rail car or tank truck is involved onsider initial evacuation for 800 meters (1/2 oray or regular foam. LARGE FIRES: Water ntainers from fire area if you can do it without maximum distance or use unmanned hose of water until well after fire is out. Withdraw discolouration of tank. ALWAYS stay away iders or monitor nozzles; if this is impossible self-contained breathing apparatus (SCBA).		

Section 6. Accidental Release Measures

Material Release or Spill

IN THE EVENT OF A LARGE SPILL CONSIDER THE FOLLOWING CONTROL MEASURES: Notify appropriate authorities immediately. Extinguish all ignition sources. Evacuate non-essential personnel. Ventilate area. Avoid breathing vapours or mists of material. Avoid contact with spilled material. Stop leak if safe to do so. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Do not use paper or other flammable materials to absorb product. Collect used absorbent for later disposal. Ensure clean-up personnel wear appropriate personal protective equipment. Avoid contaminating sewers, streams, rivers and other water courses with spilled material. Do not allow spilled materials to come into to contact with incompatible materials (see Section 10). Ground and bond all equipment used to clean up the spilled material, as it may be a static accumulator. Consult current National Emergency Response Guide Book (NAERG) for appropriate spill measures if necessary.

Section 7.	Handling and Storage
Handling	FLAMMABLE MATERIAL. Handle with care. Avoid contact with any sources of ignition, flames, heat, and sparks. Avoid inhalation of product vapours or mists. Avoid skin contact. Avoid eye contact. Do not ingest this product. Avoid generating mists. Avoid contact with any incompatible or reactive materials. Avoid confined spaces and areas with poor ventilation. Wear proper personal protective equipment (See Section 8). Exercise caution when washing/drying clothing contaminated with flammable materials. Ensure all equipment is grounded/bonded. 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.
Storage	Store as flammable material. Store away from heat and sources of ignition. Store away from incompatible and reactive materials (See section 5 and 10). Store in dry, cool, well-ventilated area. Ensure the storage containers are grounded/bonded.

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 Chemical splash goggles should be worn when handling this material.

Budy 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, 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.

Physical State and Appearance	Líquid.	Viscosity	Not available
Colour	Yellowish to clear	Pour Point	Not available
Odour	Gasoline like.	Softening Point	Not applicable.
Odour Threshold	Not available	Dropping Point	Not applicable.
Boiling Point	Montreal: IBP ≥60°C (140°F) Edmonton: IBP ≥65°C (149°F) IBP(for LN) = 102°C (215°F)	Penetration	Not applicable.
Density	0.70 to 0.75	Oil / Water Dist. Coefficient	Not available
Vapour Density	Not available	Ionicity (in water)	Not available
Vapour Pressure	105 mmHg (14 kPa) @ 37.8°C.	Dispersion Properties	Not available
Volatility	Volatile.	Solubility	Hydrocarbon components virtually insoluble in water. Soluble in alcohol, ether chloroform, and benzene.

Section 10. Stat	pility and Reactivity		
Corrosivity	Not applicable.		
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 and interhalogens.	Decomposition Products	May release COx, reactive hydrocarbons, aldehydes, ketones, smoke and Irritating vapours when heated to decomposition.

Section 11. Toxicolo	gical Information	
Routes of Entry	Skin contact, eye contact, inhalation, and ingestion.	
Acute Lethality	Acute toxicity information is not available for the product as a whole, ingredients is provided below:	therefore, data for some of the
	Toluene (108-88-3): Acute Oral toxicity (LD50): 636 mg/kg (rat) Acute Dermal toxicity (LD50): 12225 mg/kg (rabbit) Acute Inhalation toxicity (LC50): 8800 ppm/4h (rat)	
	Xviene (1330-20-7): Acute Oral toxicity (LD50): 4300 mg/kg (rat) Acute Dermal toxicity (LD50): >1700 mg/kg (rabbit) Acute Inhalation toxicity (LC50): 5000 ppm/4h (rat)	
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	Benzene (71-43-2): Acute Oral toxicity (LD50): 930 mg/kg (rat) Acute Dermal toxicity (LD50): >9400 mg/kg (rabbit) Acute Inhalation toxicity (LC50):13229 ppm/4h (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.
Inhalation Route:	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:	This product contains a component (at >= 1%) that can cause eye irritation. Therefore, this product is considered to be an eye irritant.
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.
Mutagenie:	This product contains a component(s) at >= 0.1% that has been shown to cause mutagenicity in laboratory tests. Therefore, this product is considered to be a mutagen. (Benzene)
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 contains a component(s) at >= 0.1% that has been shown to cause teratogenicity and/or embryotoxicity in laboratory tests. Therefore, this product is considered to be a teratogen/embryotoxin. (Xylene)
Carcinogenicity (ACGIH):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. (Considered to be A1 by the ACGIH. Benzene, 71-43-2)
Carcinogenicity (IARC):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. (Considered to be carcinogenic to humans (group 1) by IARC. Benzene, 71-43-2) (Considered to be probably carcinogenic to humans (group 2A) by IARC. Naphtha (petroleum), heavy straight-run, 64741-41-9; Naphtha, petroleum, light straight-run, 64741-46-4; Naphtha, petroleum, light hydrocracked, 64741-69-1)
Carcinogenicity (NTP):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. (Known to be a human carcinogen according to NTP. Benzene, 71-43-2)
Carcinogenicity (IRIS):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. (Considered to be carcinogenic by IRIS. Benzene, 71-43-2)
Carcinogenicity (OSHA);	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. (Considered to be carcinogenic by OSHA. Benzene, 71-43-2)
Other Considerations	This product contains a component(s) at >= 1.0% that has been shown to cause chronic toxic effects. Therefore, this product is considered to be a chronic toxin.

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

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Section 13. Di	sposal Considerations
Waste Disposal	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	PETROLEUM DISTILLATES, N.C UN1268, PGII (CL-TDG)	O.S., 3, Special Provisions for Transport	See Transportation of Dangerous Goods Regulations.	

ulatory Information		
This product is acceptable for use under t	,	IS-CPR. All components of this formulation are
All components of this formulation are liste	d on the US EPA-TSC	A Inventory.
All components of this product are on the European Inventory of Existing Commercial Chemical Substance (EINECS). This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.		
point lower than 37.8°C (100°F). HCS Class: May cause cancer. HCS Class: Irritating substance.		HCS Class: May cause cancer.
NOT EVALUATED FOR EURÓPEAN TRANSPORT	DOT (U.S.A) (Pictograms)	Not evaluated for transport
NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN.		Non évalué pour le transport
Fire Hazard 4 Reactivity 0	Health 2 0 1	Ruting 0 Insignificant Reactivity 1 Slight 2 Moderate secific hazard 3 High 4 Extreme
	All components of this formulation are listed. All components of this formulation are listed. All components of this product are on the (EINECS). This product has been classified in accord (CPR) and the MSDS contains all of the interpretation. Please contact Product Safety for more interpretation. Not evaluated. Not evaluated for european transport. Non évalué pour Le transport européen. Health Hazard 2° NFPA (UP)	This product is acceptable for use under the provisions of WHM listed on the CEPA-DSL (Domestic Substances List). All components of this formulation are listed on the US EPA-TSC All components of this product are on the European Inventory (EINECS). This product has been classified in accordance with the hazard (CPR) and the MSDS contains all of the information required by Please contact Product Safety for more information. Not evaluated. HCS (U.S.A.) NOT EVALUATED FOR EUROPEAN TRANSPORT (Pictograms) NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN. Health Hazard Fire Hazard 4 Reactivity NFPA (U.S.A.)

References	Available upon request. TMMC Marque de commerce de Petro-Canada	- Trademark	
Glossary			
	n Conference of Governmental Industrial Hygienists	HCS - Hazardous Communication System	
	on Dangerous goods by Road (Europe)	HMIS - Hazardous Material Information System	
	Society for Testing and Materials	IARC - International Agency for Research on Cancer	
	Oxygen Demand in 5 days	IRIS - Integrated Risk Information System	
CAS - Chemical A		LD50/LC50 - Lethal Dose/Concentration kiil 50%	
	Environmental Protection Act	LDLo/LCLo - Lowest Published Lethal Dose/Concentration	
	rehensive Environmental Response, Compensation and		
Liability Act	Assal Bass dadas	NIOSH - National Institute for Occupational Safety & Health	
CFR - Code of Fer		NPRI - National Pollulant Refease Inventory	
GHIP - Griennical	Hazard Information and Packaging Approved Supply List	NSNR - New Substances Notification Regulations (Canada)	
COD - Chemical C	Immen Demond	NTP - National Toxicology Program OSHA - Occupational Safety & Health Administration	
COD - Chemical Oxygen Demand 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 Directives		STEL - Short Term Exposure Limit (15 minutes)	
(Europe)	and addition of a sangular in repair and the principles	TDG - Transportation Dangerous Goods (Canada)	
DSL - Domestic Substance List (Canada)		TDLo/TCLo - Lowest Published Toxic Dose/Concentration	
	an Economic Community/European Union	TLV-TWA - Threshold Limit Value-Time Weighted Average	
EINECS - Europ	bean Inventory of Existing Commercial Chemical	TLm - Median Tolerance Limit	
Substances		TSCA - Toxic Substances Control Act	
	ncy Planning And Community Right-To-Know Act	USEPA - United States Environmental Protection Agency	
	rug Administration	USP - United States Pharmacopoeia	
FIFRA - Federal Ir	secticide, Fungicide, and Rodenticide Act	WHMIS - Workplace Hazardous Material Information System	
F C		B 11 B 1 (0.1 B 2)	
For Copy of MS	SDS	Prepared by Product Safety - DSR on 6/20/2006.	

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Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-1228

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.



WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing	TDG (pictograms)
(1)	B-2, D-2A, D-2B		

Product Name	GASOLINE, UNLEADED	Code	W102E
Synonym	Regular, Unleaded Gasoline (US Grade), Mid-Grade, Plus, Super, WinterGas, SummerGas, Supreme, SuperClean WinterGas, RegularClean, PlusClean, Premium, marked or dyed gasoline, Super Premium (94 RO), TQRUL, transitional quality regular unleaded, BOB, Blendstock for Oxygenate Blending		on 7/4/2005.
Manufacturer	PETRO-CANADA P.O. Box 2844 Calgary, Alberta T2P 3E3	In case of Emergency	Canutec Transportation: 613-996-6666
Material Uses	Unleaded gasoline is used in spark Ignition engines including motor vehicles, inboard and outboard boat engines, small engines such as chain saws and lawn mowers, and recreational vehicles.		Poison Control Centre: Consult local telephone directory for emergency number(s).

			Exposure Limits (ACGIH))	
	Name	CAS#	% (W/W)	TLV-TWA(8 h)	STEL	CEILING
Gasoline		8006-61-9	85-100	300 ppm	500 ppm	Not established
Methyl tert-butyl ether		1634-04-4	0-15	50 ppm	Not established	Not established
Benzene Note: Petro-Canada does not use MTBE in the manufacturing of its gasoline, however MTBE can be introduced from time to time through the use of		71-43-2	<1.5	0.5 ррт	2.5 ppm	Not established
external gasoline ble	ndstocks.			<u>L</u>	<u></u>	
Manufacturer Recommendation	Not applicable					
Other Exposure Limits	Consult local, state, provincial	or territory au	thorities for a	cceptable exposure	limits.	

Section 3. Hazards Identification.				
Potential Health Effects	Flammable liquid. Exercise caution when handling this material. May cause cancer. May cause heritable genetic effects (mutagenicity). This product contains an ingredient or ingredients, which have been shown to cause chronic toxic effects. Contact with this product may cause skin and eye irritation. 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.			

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Inhalation	Take proper precautions to ensure your own safety before attempting rescue (equipment). If breathing has stopped, trained personnel should begin artificial has stopped, cardiopulmonary resuscitation (CPR) immediately. Immediately tracare facility.	respiration (AR) or, if the hear
Skin Contact	Avoid direct contact. Wear chemical resistant protective clothing if necessal brush away excess chemical. Wash gently and thoroughly with warm water an minutes or until chemical is removed. Under running water, remove contaminal goods (e.g., watch bands, belts, etc.). Obtain medical attention immediated clothing, shoes and leather goods before reuse or discard.	nd non-abrasive soap for 15-20 ted clothing, shoes and leather
Eye Contact	Avoid direct contact. Quickly and gently blot or brush away chemical, Immeeye(s) with lukewarm, gently flowing water for 15-20 minutes or until the chen the eyelid(s) open. Take care not to rinse contaminated water into the unaffect medical attention immediately.	nical is removed, while holding
Section 4. Fi	rst Aid Measures	

GASOLINE, UNLEAD	ED	Page Number: 2
Ingestion	NEVER give anything by mouth if victim is rapidly losing consciousness, Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITION [8] to 10 oz) of water to dilute material in stomach. If vomiting occurs nating reduce risk of aspiration. Repeat administration of water. If breathing has a begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary Quickly transport victim to an emergency care facility.	NG. Have victim drink 240 to 300 urally, have victim lean forward to stopped, trained personnel should
Note to Physician	Not available	

Section 5. Fit	re-fighting Measures		
Flammability	Flammable liquid (NFPA).	Flammable Limits	Lower: 1.3%; Upper: 7.6% (NFPA).
Flash Points	Closed Cup: -50 to -38°C (-58 to -36°F), ASTM D56 Standard Test Method for Flash Point by Tag Closed Tester.		257°C (495°F) (NFPA).
Fire Hazards in Presence of Various Substances	Extremely 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. Rapid escape of vapour may generate static charge causing ignition. May accumulate in confined spaces.	Hazards in Presence of Various	Do not cut, weld, heat, drill or pressurize empty container. Containers may explode in heat of fire. Vapours may form explosive mixtures with air.
Products of Combustion	Carbon oxides (CO, CO2), nitrogen oxides (NOx), polynuclear aromatic hydrocarbons, phenols, smoke and irritating vapours as products of incomplete combustion. See Section 11 (Other Considerations) for information regarding the toxicity of the combustion products.		
Fire Fighting Media and Instructions	NAERG2004 GUIDE 128, Flammable liquids (Non-polar/Water-immiscible). CAUTION: This product has a very low flash point: Use of water spray when fighting fire may be inefficient. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. SMALL FIRES: Dry chemical, CO2, water spray or regular foam. LARGE FIRES: Water spray, fog or regular foam. Do not use straight streams. Move containers from fire area if you can do it without risk. Fires Involving Tanks or Car/Trailer Loads: Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting devices or any discolouration of tank. ALWAYS stay away from the ends of tanks. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.		

Section 6. Accidental Release Measures

Material Release or Spill IN THE EVENT OF A LARGE SPILL CONSIDER THE FOLLOWING CONTROL MEASURES: 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. Evacuate non-essential personnel. Ventilate area. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Collect used absorbent for later disposal. Ensure clean-up personnel wear appropriate personal protective equipment. Avoid contact with spilled material. Avoid contaminating sewers, streams, rivers and other water courses with spilled material. Avoid breathing vapours or mists of material. Ground and bond all equipment used to clean up the spilled material, as it may be a static accumulator. Notify appropriate authorities immediately.

Section 7.	Handling and Storage
Handling	FLAMMABLE MATERIAL. Handle with care. Avoid contact with any sources of ignition, flames, heat, and sparks. Avoid skin contact. Avoid eye contact. Avoid inhalation of product vapours or mists. Wear proper personal protective equipment (See Section 8). 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. Ensure all equipment is grounded/bonded. Avoid confined spaces and areas with poor ventilation. Do not ingest this product.
Storage	Store as flammable material. Store away from incompatible and reactive materials (See section 5 and 10), Store away from heat and sources of Ignition. Store in dry, cool, well-ventilated area. Keep container tightly closed. Ensure the storage containers are grounded/bonded. Avoid direct sunlight.

GASOLINE, UNLEADE	Page Number: 3
Section 8. Expo	sure 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. 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 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): 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.
Feet	Wear appropriate footwear to prevent product from coming in contact with feet and skin.

Section 9. Phy	Section 9. Physical and Chemical Properties				
Physical State and Appearance	Clear liquid.	Viscosity	Not available.		
Colour	Clear to slightly yellow, undyed liquid. May be dyed red for taxation purposes.	Pour Point	Not applicable.		
Odour	Gasoline. MT8E has a terpene-like odour.	Softening Point	Not applicable.		
Odour Threshold	Less than 1 ppm.	Dropping Point	Not applicable.		
Boiling Point	25 to 220°C (77 to 428°F) Initial boiling point by ASTM D86 Standard Test Method.		Not applicable.		
Density	0.685 - 0.80 kg/L @ 15°C (59°F).	Oil / Water Dist. Coefficient	Not available		
Vapour Density	3 to 4 (Air = 1) (NFPA).	Ionicity (in water)	Not available		
Vapour Pressure	<107 kPa @ 37.8°C (100°F)	Dispersion Properties Not available			
Volatility	Volatile.	Solubility	Hydrocarbon components virtually insoluble in water. Soluble in alcohol, ether, chloroform, and benzene. Dissolves fats, oils and natural resins.		

Section 10. Stability and Reactivity				
Corrosivity	Non corrosive.			
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		Decomposition Products	May release COx, NOx, phenols, polynuclear aromatic hydrocarbons, acrid smoke and irritating vapours when heated to decomposition.	

Routes of Entry	Skin contact, eye contact, inhalation, and ingestion.	
Acute Lethality	Gasoline (8006-61-9): Acute Oral toxicity (LD50): 13600 mg/kg (rat) Acute Dermal toxicity (LD50): >5000 mg/kg (rabbit) MTBE (1634-04-4): Acute Oral toxicity (LD50): 2963 mg/kg (rat) Acute Dermal toxicity (LD50): >6800 mg/kg (rabbit) Acute Inhalation toxicity (LC50): 23576 ppm/4h (rat) Benzene (71-43-2):	
Continued on Next Page	Internet: www.petro-canada.ca/msds	Available in Frenci

GASOLINE, UNLEADED	Page Number: 4	
	Acute Oral toxicity (LD50): 930 mg/kg (rat) Acute Dermal toxicity (LD50): >9400 mg/kg (rabbit) Acute Inhalation toxicity (LC50): 13229 ppm/4h (rat)	
Chronic or Other Toxic Effect		
D erm al Route:	Contact may cause skin irritation. Prolonged or repeated contact may defat and dry skin, and cause dermatitis.	
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:	Contact may cause eye irritation.	
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 contains a component(s) at >= 0.1% that has been shown to cause mutagenicity in laboratory tests. Therefore, this product is considered to be a mutagen. (Benzene)	
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 (ACGIII):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. [Considered to be A1 by the ACGIH. Benzene (71-43-2)] [Considered to be A3 by the ACGIH. Gasoline (8006-61-9), MTBE (1634-04-4)]	
Carcinogenicity (IARC):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. [Considered to be carcinogenic to humans (group 1) by IARC, Benzene (71-43-2)] [Considered to be carcinogenic to humans (group 2B) by IARC, Gasoline (8006-61-9)]	
Carcinogenicity (NTP):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. [Known to be a human carcinogen according to NTP. Benzene (71-43-2)]	
Carcinogenicity (IRIS):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. [Considered to be carcinogenic by IRIS. Benzene (71-43-2)]	
Carcinogenicity (OSHA):	This product contains the following chemical(s) at >=0.1% that are listed as carcinogenic compounds. Therefore this product is considered to be carcinogenic. [Considered to be carcinogenic by OSHA. Benzene (71-43-2)]	
Other Considerations	Gasoline engine exhaust is possibly carcinogenic to humans (IARC Group 2B).	

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

Section 13. Disposal Considerations

Waste Disposal

Continued on Next Page

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	GASOLINE, 3, UN1203, PGII (CL-TDG)	Special Provisions for Transport	See Transportation of Dangerous Goods Regulations.

Section 15. Reg	ulatory 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 formu	lation are liste	ed on the US EPA-1	FSCA Inventory.	
	All components of this product are on the European Inventory of Existing Commercial Chemic (EINECS). This product has been classified in accordance with the hazard criteria of the Controlled Product (CPR) and the MSDS contains all of the information required by the CPR.				mical Substances
					ducts Regulations
	Please contact Product Safety for more information.				
DSD/DPD (Europe)	Not evaluated.		HCS (U.S.A.)	CLASS: Contains material cancer. CLASS: Flammable liquid point lower than 37.8°C (10 CLASS: Irritating substanc CLASS: Target organ effec	having a flash 90°F). e.
ADR (Europe) (Pictograms)	NOT EVALUATED FOR EUROPEAN TRANSPORT		DOT (U.S.A) (Pictograms)	Not evaluated for transport	
	NON ÉVALUÉ POUR LE TRANSPORT EUROPÉEN.			Non évalué pour le transpo	rt
HMIS (U.S.A.)	Health Hazard 2* Fire Hazard 3 Reactivity 0 Personal Protection H	NFPA (U	Health 2 0	Reactivity 1 Specific hazard 3	Insignificant Slight Moderate High Extreme

Section 16. Other Information Available upon request. References * Marque de commerce de Petro-Canada - Trademark Glossarv HCS - Hazardous Communication System ACGIH - American Conference of Governmental Industrial Hygienists 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 CFR - Code of Federal Regulations NPRI - National Pollutant Release Inventory CHIP - Chemical Hazard Information and Packaging Approved Supply NSNR - New Substances Notification Regulations (Canada) 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 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 For Copy of MSDS Prepared by Product Safety - JDW on 7/4/2005,

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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.