





| Product Name  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | emical Product and Company Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |  |  |  |  |
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|               | DIESEL FUEL                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | W104, W293<br>SAP: 120, 121, 122, 287                 |  |  |  |  |
| Synonym       | Diesel 50, Diesel 50 LS, #1 Diesel , #1 Diesel LS, Diesel LC, Seasonal Diesel, Seasonal Diesel LS, Diesel AA, Domestic Marine Diesel, International marine Diesel, Seasonal Diesel Locomotive, Domestic Marine diesel LS, diesel -20°C (LS), LSD, Low Sulphur Diesel, dyed diesel, marked diesel, coloured diesel, Naval Distillate, Ultra Low Sulphur Diesel, ULS Diesel, Mining Diesel, Mining Diesel, Special LS, High Flash Mining Diesel, Furnace Oil, Stove Oil. | REGISTANCE CONTRACTOR | n 2/6/2004,                                           |  |  |  |  |
| Manufacturer  | PETRO-CANADA<br>P.O. Box 2844<br>Calgary, Alberta<br>T2P 3E3                                                                                                                                                                                                                                                                                                                                                                                                           | In case of<br>Emergency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 613-996-6666<br>Paison Control Centre: Consult        |  |  |  |  |
| Material Uses | Diesel fuels are distillate fuels suitable for use in high and medium speed<br>internal combustion engines of the compression ignition type. Mining Diesel<br>has a higher flash point requirement, for safe use in underground mines.                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | local telephone directory for<br>emergency number(s). |  |  |  |  |

|                                                   |                                                                                                                                                                | <del></del>   |         | Exp                                 | oosure Limits (ACGIH) |                 |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------|-------------------------------------|-----------------------|-----------------|
|                                                   | Name                                                                                                                                                           | CAS#          | % (V/V) | TLV-TWA(8 h)                        | STEL                  | CEILING         |
| 1) Diesel oil.                                    |                                                                                                                                                                | 68334-30-5    | >99.9   | 100 mg/m³ (as total hydrocarbons) * | Not established       | Not established |
| 2) Proprietary additives.                         |                                                                                                                                                                | Not available | <0.1    | Not established                     | Not established       | Not established |
| Aromatic content is 50<br>Sulphur content is 0-0. | % maximum (benzene: nil).<br>50%.                                                                                                                              |               |         |                                     |                       | No.             |
| Manufacturer<br>Recommendation                    | * Avoid prolonged or repeated skin contact to diesel fuels which can lead to dermal irritation and may be associated with<br>an increased risk of skin cancer. |               |         |                                     |                       |                 |
| Other Exposure<br>Limits                          | Consult local, state, provincial or territory authorities for acceptable exposure limits.                                                                      |               |         |                                     |                       |                 |

| Section 3. Haza             | Section 3. Hazards Identification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Potential Health<br>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, sturred 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. |  |  |  |

| Section 4. First Aid Measures                                                                                                                                                                       |  |  |
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| IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention.                                                                                    |  |  |
| Remove contaminated clothing - launder before reuse. Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. Seek medical attention.                             |  |  |
| 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. |  |  |
| DO NOT induce vomiting because of danger of aspirating liquid into lungs. Seek medical attention.                                                                                                   |  |  |
| Not available                                                                                                                                                                                       |  |  |
|                                                                                                                                                                                                     |  |  |

| DIESEL FUEL                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                | Page Number: 2                                                                                                                                                                                                    |  |  |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Section 5. Fire                                         | Section 5. Fire-fighting Measures                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                |                                                                                                                                                                                                                   |  |  |
| Flammability                                            | Class II - combustible liquid (NFPA).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Flammable Limits                               | LOWER: 0.7%, UPPER: 6% (NFPA)                                                                                                                                                                                     |  |  |
| Flash Points                                            | Diesel Fuel: Closed Cup: >40°C (>104°F) Marine Diesel Fuel: Closed Cup: >60°C (>140°F) Mining Diesel: Closed Cup: 52°C (126°F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Auto-Ignition<br>Temperature                   | 225°C (437°F)                                                                                                                                                                                                     |  |  |
| Fire Hazards<br>in Presence of<br>Various<br>Substances | Flammable in presence of open flames, sparks, or 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<br>Presence of                      | Containers may explode in heat of fire. Do not cut, weld, heat, drill or pressurize empty container. Vapour explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. |  |  |
| Products of<br>Combustion                               | Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), sulphur compounds (H2S), water vapour (H2O), 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<br>Media and<br>Instructions              | NAERG96, 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 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 ur<br>from venting devices or any discolouration of tank<br>unmanned hose holders or monitor nozzles; if thi<br>pressure self-contained breathing apparatus (SCB<br>protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | t. ALWAYS stay away<br>is is impossible withdi | y from the ends of tanks. For massive fire, use                                                                                                                                                                   |  |  |

| 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. Stop leak if safe to do so. Ventilate area. Dike spilled material. Use appropriate inert absorbent material to absorb spilled product. Collect used absorbent for later disposal. Avoid contact with spilled material. Avoid breathing vapours or mists of material. Avoid contaminating sewers, streams, rivers and other water courses with spilled material. Evacuate non-essential personnel. Ensure clean-up personnel wear appropriate personal protective equipment. 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. F | fandling and Storage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Handling     | COMBUSTIBLE 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. 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. Avoid confined spaces and areas with poor ventilation. Ensure all equipment is grounded/bonded. Wear proper personal protective equipment (See Section 8). |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                       | re Controls Personal Protection                                                                                                                                                                                                                                                                                                                                |
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|                       | For normal application, special ventilation is not necessary. If user's operations generate vapours or mist, use ventilation is 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                  | 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 your area) and where engineering, work practices or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.                                                 |
| Hands                 | Wear appropriate chemically protective gloves. When handling hot product ensure gloves are heat resistant and insulated.                                                                                                                                                                                                                                       |
| Feet                  | Wear appropriate footwear to prevent product from coming in contact with feet and skin.                                                                                                                                                                                                                                                                        |

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| DIESEL FÜEL                                 |                                                              |                                  | Page Number: 3                                                      |  |
|---------------------------------------------|--------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------|--|
| Section 9. Physical and Chemical Properties |                                                              |                                  |                                                                     |  |
| Physical State and<br>Appearance            | Bright oily liquid.                                          | Viscosity                        | 1.3 - 4.1 cSt @ 40°C (104°F)                                        |  |
| Colour                                      | Clear to yellow / brown (may be dyed for taxalion purposes). | Pour Point                       | Variable, -50°C to 0°C (-58°F to -32°F)                             |  |
| Odour                                       | Petroleum oil like.                                          | Softening Point                  | Not applicable.                                                     |  |
| Odour Threshold                             | Not available                                                | Dropping Point                   | Not applicable.                                                     |  |
| Boiling Point                               | 150 - 371°C (302-700°F)                                      | Penetration                      | Not applicable.                                                     |  |
| Density                                     | 0.80 - 0.85 kg/L @ 15°C (59°F)                               | Oil / Water Dist.<br>Coefficient | Not available                                                       |  |
| Vapour Density                              | 4.5 (Air = 1)                                                | lonicity (in water)              | Not applicable.                                                     |  |
| Vapour Pressure                             | Not available                                                | 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<br>Polymerization | Will not occur under normal working conditions.                                                       |  |
| Incompatible<br>Substances /<br>Conditions to Avoid | Reactive with exidizing agents and acids.                           | Decomposition<br>Products   | May release COx, NOx, SOx, H2S, H2O, smoke<br>and irritating vapours when heated to<br>decomposition. |  |

| Inhalation Route:  Inhalation Route:  Inhalation of this product may cause respiratory tract irritation. Inhalation of this product may cause Centra Nervous System (CNS) Depression, symptoms of which may include; weakness, dizziness, slurred speech drowsiness, unconsciousness and in cases of severe overeposure; 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. 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:  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  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 Sensilization:  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.  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 mutagen.  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.  This product is not known to contain any components at >= 0.1% that have been shown to cause terpoductive toxin.  This product is not known to contain any components at reportable quantities that  | Section 11. Toxicological In            | nformation                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chronic or Other Toxic Effects  Dermal Routle:  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 defait and dry skin, and cause dermatities (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, sturred speech drowsiness, unconsciousness and in cases of severe overexposure; coma and death.  Oral Route:  Ingestion of this product may cause gastiva-intestinal irritan. 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, sturred speech, drowsiness unconsciousness and in cases of severe overexposure; coma and death.  Eye Irritation/Inflammation:  Inmunotoxicity:  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.  This product is not known to contain any components at >= 0.1% that have been shown to cause teralogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not known to contain any components at >= 0.1% that have been shown hazards of the components, this product is not known to contain any components at >= | Routes of Entry                         | Skin contact, eye contact, inhalation, and ingestion.                                                                                                                                                                                                                                                                                                                                             |
| 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 defail and dry skin, and cause dermatitis (See Other Considerations)  Inhalation of this product may cause respiratory tract irritation. Inhalation of this product may cause Centra Nervous System (CNS) Depression, symptoms of which may include; weakness, dizziness, sturred 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. Ingestion of this product may result in severe irritation or burns to the respiratory tract. Ingestion of this product may result in severe irritation/Inflammation:  Eye Irritation/Inflammation:  Immunotoxicity:  Skin Sensitization:  Immunotoxicity:  Not available  Contact with this product is not expected to cause skin 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 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.  Teratogenicity/Embryotoxicity:  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 known to contain any components at >= 0.1% that have been shown to cause tratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not known to contain any chemic | Acute Lethality                         | Acute oral toxicity (LD50): 7500 mg/kg (rat).                                                                                                                                                                                                                                                                                                                                                     |
| 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. 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.  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  Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.  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 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 known to contain any components at >= 0.1% that have been shown to cause reproductive toxic.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxic.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxic.  This product is not known to contain any components at >= 0.1% that have been shown to cause teratogenicity (arXiv):  Carcinogenicity (ACGIH):  Carcinogenicity (ACGIH):  Carcinogenicity (ACGIH):  Carcinogenicity (ACGIH):  This product is not known to contain any chemicals at r | • • • • • • • • • • • • • • • • • • • • | 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)                                                                                                                                                  |
| 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, sturred 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.  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.  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 mutagen.  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.  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):  Carcinogenicity (ACGIH):  Carcinogenicity (IARC):  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IARC.  This product is not k | 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.                                                                                             |
| Immunotoxicity:  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.  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 toxic.  Teratogenicity/Embryotoxicity:  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxic.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxic.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxic.  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/embryotoxicity.  Carcinogenicity (ACGIH):  Carcinogenicity (ACGIH):  Carcinogenicity (ACGIH):  ACGIH A3: animal carcinogen. [Diesel oil] (See Other Considerations)  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by RIS.                                                                                                                                                         | 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. |
| 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.  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.  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 toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, 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):  Carcinogenicity (ACGIH):  Carcinogenicity (IARC):  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.                                                                                                                                                                                                                                                                                                                                                                                                      | 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.                                                                                                                                                                                                                                                          |
| 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):  ACGIH A3: animat carcinogen. [Diesel oil] (See Other Considerations)  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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Immunotoxicity:                         | Not available                                                                                                                                                                                                                                                                                                                                                                                     |
| 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.  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):  Carcinogenicity (IARC):  ACGIH A3: animat carcinogen. [Diesel oil] (See Other Considerations)  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 (IRIS):  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 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.                                                                                                                                                                                                                                                     |
| mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.  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 reproductive toxin.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxin.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxin.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxin.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxin.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxin.  This product is not known to contain any components at >= 0.1% that have been shown to cause reproductive toxin.  This product is not known to contain any components at >= 0.1% that have been shown to cause toxin.  This product is not known to contain any chemicals at reportable quantities that are listed as Group 1, 2A, or 2B carcinogens by IARC.  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 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.                                                                                                                                                                                                                                        |
| toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a reproductive toxin.  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):  Carcinogenicity (IARC):  Carcinogenicity (IARC):  Carcinogenicity (NTP):  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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 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.                                                                                                                                                        |
| 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):  Carcinogenicity (IARC):  Carcinogenicity (IARC):  Carcinogenicity (NTP):  Carcinogenicity (IRIS):  Carcinogenicity (IRIS):  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IARC.  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IARC.  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IARC.  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 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.                                                                                                                                    |
| 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 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 (NTP):  Carcinogenicity (IRIS):  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Carcinogenicity (ACGIH):                | ACGIH A3: animal carcinogen. [Diesel oil] (See Other Considerations)                                                                                                                                                                                                                                                                                                                              |
| Carcinogenicity (IRIS):  This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Carcinogenicity (IARC):                 | This product is not known to contain any chemicals at reportable quantities that are listed as Group 1, 2A, or                                                                                                                                                                                                                                                                                    |
| IRIS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Carcinogenicity (NTP):                  | This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by NTP.                                                                                                                                                                                                                                                                                |
| Continued on Next Page Internet: www.petro-canada.calmsds Available to French                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Carcinogenicity (IRIS):                 | This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by IRIS.                                                                                                                                                                                                                                                                               |
| AV SILIADIO MI I PORCIF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Continued on Next Page                  | Internet: www.petro-canada.caimsds Available in French                                                                                                                                                                                                                                                                                                                                            |

| DIESEL FUEL             | Page Number: 4                                                                                                                                            |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Carcinogenicity (OSHA): | This product is not known to contain any chemicals at reportable quantities that are listed as carcinogens by<br>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<br>Fate | Not available | Persistance/<br>Bioaccumulation<br>Potential | Not available |  |
|-----------------------|---------------|----------------------------------------------|---------------|--|
| BOD5 and COD          | Not available | 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.<br>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-TDG) | Special Provisions for Transport | See Transportation of Dangerous Goods<br>Regulations, |

| Section 15. Regu             | latory Information                                                                                                                                                                     |                             |                                                                                                      |                                                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Other<br>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 inform                                                                                                                                          | nation.                     |                                                                                                      |                                                      |
| DSD/DPD (Europe)             | Not evaluated.                                                                                                                                                                         | HCS (U.S.A.)                | CLASS: Irritating substa<br>CLASS: Target organ e<br>CLASS: Combustible lic<br>between 37.8°C (100°F | ffects.<br>Juid having a flash point                 |
| ADR (Europe)<br>(Pictograms) | NOT EVALUATED FOR<br>EUROPEAN TRANSPORT<br>NON ÉVALUÉ POUR LE<br>TRANSPORT EUROPÉEN.                                                                                                   | DOT (U.S.A)<br>(Pictograms) |                                                                                                      |                                                      |
| HMIS (U.S.A.)                | Health Hazard 2 NFPA (L<br>Fire Hazard 2 Reactivity 6 Personal Protection H                                                                                                            | Health 0                    | e Hazard Rating<br>Reactivity<br>pecific hazard                                                      | 0 Insignificant 1 Slight 2 Moderate 3 High 4 Extreme |

| Section 16. Other Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| References Available upon request.  * Marque de commerce de Petro-Canada - Trade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | mark                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Glossary ACGIH - American Conference of Governmental Industrial Hygienists ADR - Agreement on Dangerous goods by Road (Europe) ASTM - American Society for Testing and Materials ( BODS - Biological Oxygen Demand in 5 days CAN/CGA B149.2 Propane Installation Code CAS - Chemical Abstract Services CEPA - Canadian Environmental Protection Act CERCLA - Comprehensive Environmental Response, Compensation and Liability Act CFR - Code of Federal Regulations CHIP - Chemicals Hazard Information and Packaging Approved Supply List CODS - Chemical Oxygen Demand in 5 days CPR - Controlled Products Regulations DOT - Department of Transport DSCL - Dangerous Substances Classification and Labeling (Europe) | IRIS - Integrated Risk Information System LD50/LC50 - Lethal Dose/Concentration kill 50% LDL0/LC10 - Lowest Published Lethal Dose/Concentration NAERG'96 - North American Emergency Response Guide Book (1996) NFPA - National Fire Prevention Association NIOSH - National Institute for Occupational Safety & Health NPRI - National Pollutant Release Inventory NSNR - New Substances Notification Regulations (Canada) NTP - 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) |  |
| Continued on Next Page Internet: www.petro-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | canada.calmsds Available In French                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |

DIESEL FUEL Page Number 5 DSD/DPD - Dangerous Substances or Dangerous Preparations Directives TDG - Transportation Dangerous Goods (Canada)
TDLo/TCLo - Lowest Published Toxic Dose/Concentration DSL - Domestic Substance List TLm - Median Tolerance Limit EEC/EU - European Economic Community/European Union TLV-TWA - Threshold Limit Value-Time Weighted Average EINECS - European Inventory of Existing Commercial Chemical Substances EPCRA - Emergency Planning and Community Right to Know Act TSCA - Toxic Substances Control Act USEPA - United States Environmental Protection Agency FDA - Food and Drug Administration USP - United States Pharmacopoeia FIFRA - Federal Insecticide, Fungicide and Rodenticide Act HCS - Hazardous Communication System WHMIS - Workplace Hazardous Material Information System HMIS - Hazardous Material Information System IARC - International Agency for Research on Cancer For Copy of MSDS Prepared by Product Safety - JDW on 2/6/2004. Internet: www.petro-canada.ca/msds Data entry by Product Safety - JDW. Western Canada, Ontario & Central Canada, telephone: 1-800-668-0220; fax: 1-800-837-1228 Quebec & Eastern Canada, telephone: 514-640-8308; fax: 514-640-8385 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.