

# Spill Contingency Plan – CAM-3

## 1. Contact Information

This Spill Contingency Plan (SCP) was prepared for the site's long-term landfill monitoring program and is effective as of November 1, 2019. It is effective until the expiry date of the Water Use Licence for this site, unless new information becomes available that warrants an update to this plan prior to expiry of the licence. The landfill monitoring contractor (herein referred to as the "contractor") shall make this SCP available to all team members and shall also post this SCP on-site in the camp.

This plan does not relieve the contractor of their obligation to follow all applicable federal and territorial laws and regulations, as well as their internal corporate health, safety and environment policies. This plan does not relieve the contractor of their obligation to develop appropriate health, safety and environmental protection plans, including possible supplemental spill contingency plans, as required.

To request additional information, please contact:

**Laura D'Costa, P.Eng., M.Sc.**  
**Senior Project Manager**  
**Directorate of Contaminated Sites**  
**Department of National Defence**  
**Ottawa, ON**  
**Phone: 613-943-7852**  
**E-mail: [laura.dcosta@forces.gc.ca](mailto:laura.dcosta@forces.gc.ca)**

Or:

**Alison Street, P.Eng.**  
**Project Engineer**  
**Directorate of Contaminated Sites**  
**Department of National Defence**  
**Ottawa, ON**  
**Phone: 613-995-8603**  
**E-mail: [alison.street@forces.gc.ca](mailto:alison.street@forces.gc.ca)**

## **2. Introduction**

This contingency plan presents the prescribed course of action to be taken in the case of an unanticipated spill event occurring during the landfill monitoring program at the site. The plan will enable the site team to maximize the effectiveness of the environmental protection response and meet regulatory requirements for reporting to the appropriate authorities.

### **2.1 Scope and Purpose**

The purpose of the plan is to:

- Identify the contractor's roles and responsibilities for spill response activities;
- Provide a clear statement of the procedures to be followed in response to a spill;
- Minimize potential environmental impact from a spill by establishing a pre-determined action plan;
- Protect the health and ensure the safety of the personnel involved in the spill response activities;
- Provide a reporting network for spills; and,
- Ensure site restoration.

### **2.2 Site Information**

It is estimated that the landfill monitoring program will require small amounts of gasoline and/or diesel for all-terrain vehicles, pick-up trucks and/or small generators, which will be purchased from the community and will not typically be stored on-site by the contractor.

### **2.3 Potential Safety Hazards**

The most significant potential safety hazard related to a fuel spill at the site is possible soil and/or water contamination. Although contamination is a potential hazard, the likelihood is low and potential spill volumes are small.

### **2.4 Environmental Mapping**

The attached drawing shows the site plan, including site infrastructure and nearby bodies of water. The camp and any fuel storage would typically be located within close proximity of the airstrip. The contractor will be responsible for equipping the camp and the ATVs/trucks with appropriate spill response equipment.

### **2.5 Resource and Chemical Inventory**

The following equipment is typically on-site during a landfill monitoring program event: ATVs and/or pick-up trucks, small spill kits and shovels. The contractor might also bring a small generator to site to provide electricity.

The following chemicals are typically on-site during a landfill monitoring program event: gasoline and/or diesel.

### **2.6 Training and Exercises**

As the potential spill volume is small, no formal spill response training is typically provided. However, general spill response awareness and use of the spill clean-up materials shall be included in the contractor's health, safety and environment training program and plan.

## 3. Response Organization

### 3.1 Roles and Responsibilities

The contractor will be responsible for spill response clean up in the event of a spill during the landfill monitoring activities at the site. The contractor's responsibilities for spills on land, ice/snow and water are described below:

- Follow all applicable federal and territorial laws and regulations related to fuel storage, including, but not limited to, provision for the appropriate types/quantities of spill kit materials and equipment and/or secondary containment based on the types/quantities of fuel the contractor chooses to store at the site;
- Acquire all required spill prevention/response materials and equipment prior to arrival at the site and ensure they are readily available throughout the duration of all site activities;
- Ensure all team members are aware of all locations of spill prevention/response materials and equipment and their proper use;
- Stop or reduce discharge, if it is safe to do so;
- Make every effort to contain the spill;
- Deploy hand tools and absorbents to the spill site;
- Follow all guidelines and regulations for disposal of spilled materials and contaminated soil as established by appropriate government agencies;
- Document all events/actions;
- Verbally report all spills to DND as soon as practical; and,
- Report the spill to the Spill Report Line and follow up with a written spill report. This report shall summarize the initial report information, confirmation of spill volume, actions taken, future remediation/monitoring requirements and a sketch map and/or photographs of the spill area.

### 3.2 Communications and Contacts

Intra-site communication is via two-way radios, and a satellite phone will be used for all other communications. The following table provides relevant contact numbers.

| Resource                                                                                 | Location                      | Phone Number |
|------------------------------------------------------------------------------------------|-------------------------------|--------------|
| 24 Hour Spill Line                                                                       | Northwest Territories/Nunavut | 867-920-8130 |
| Government of Nunavut –<br>Environmental Protection Division                             | Iqaluit                       | 867-975-7700 |
| Environment and Climate Change Canada –<br>Enforcement Officer                           | Iqaluit                       | 867-975-4644 |
| Crown-Indigenous Relations and Northern<br>Affairs Canada – Water Resources Manager      | Iqaluit                       | 867-975-4550 |
| Crown-Indigenous Relations and Northern<br>Affairs Canada – Lands Administration Manager | Iqaluit                       | 867-975-4280 |
| Crown-Indigenous Relations and Northern<br>Affairs Canada – Field Operations Manager     | Iqaluit                       | 867-975-4553 |
| Department of National Defence –<br>Laura D'Costa, Senior Project Manager                | Ottawa                        | 613-943-7852 |
| Department of National Defence –<br>Alison Street, Project Engineer                      | Ottawa                        | 613-995-8603 |

## 4. Action Plan

Gasoline and/or diesel could potentially be spilled at the site; however, the potential spill volumes would be relatively small and would only affect the immediate area around the spill site.

### 4.1 Preventative Measures

In order to minimize the risk of spills, the contractor shall follow these procedures:

- Follow all applicable federal and territorial laws and regulations related to fuel storage, including, but not limited to, provision for the appropriate types/quantities of spill kit materials and equipment and/or secondary containment based on the types/quantities of fuel the contractor chooses to store at the site;
- Acquire all required spill prevention/response materials and equipment prior to arrival at the site and ensure they are readily available throughout the duration of all site activities;
- Ensure all team members are aware of all locations of spill prevention/response materials and equipment and their proper use;
- Equip the camp and each ATV/truck with appropriate spill prevention/response materials and equipment, as appropriate;
- Any fuel stored at the site shall be stored in its original containers in an upright position;
- Conduct ATV/truck fuelling in a manner that avoids spillage. Operators are to be in attendance for the duration of the refuelling operation and are to ensure that all storage container outlets are properly sealed after use;
- Do not stop ATVs/trucks in areas of ponded water or near streams;
- Do not store fuel or ATVs/trucks on top of any snow or ice that may be present at the site, and avoid driving over ice and snow as much as possible; and,
- Smoking is prohibited within 10 metres of any fuel storage areas.

### 4.2 Initial Actions in the Event of a Spill

In the event of a spill on land, ice/snow or water, protection of human health and safety is paramount. Health and safety risks to personnel involved in a spill response are possible, as is contamination of the surrounding environment. The individual discovering a spill shall:

- Warn the people in the immediate vicinity and evacuate if necessary;
- Isolate or remove any ignition sources and take all safety precautions before approaching;
- Attempt to stop the leakage and contain the spill, if safe to do so;
- Deploy equipment and personnel to initiate containment and clean up;
- Report to DND; and,
- Prepare the Government of the Northwest Territories/Nunavut Spill Report Form.

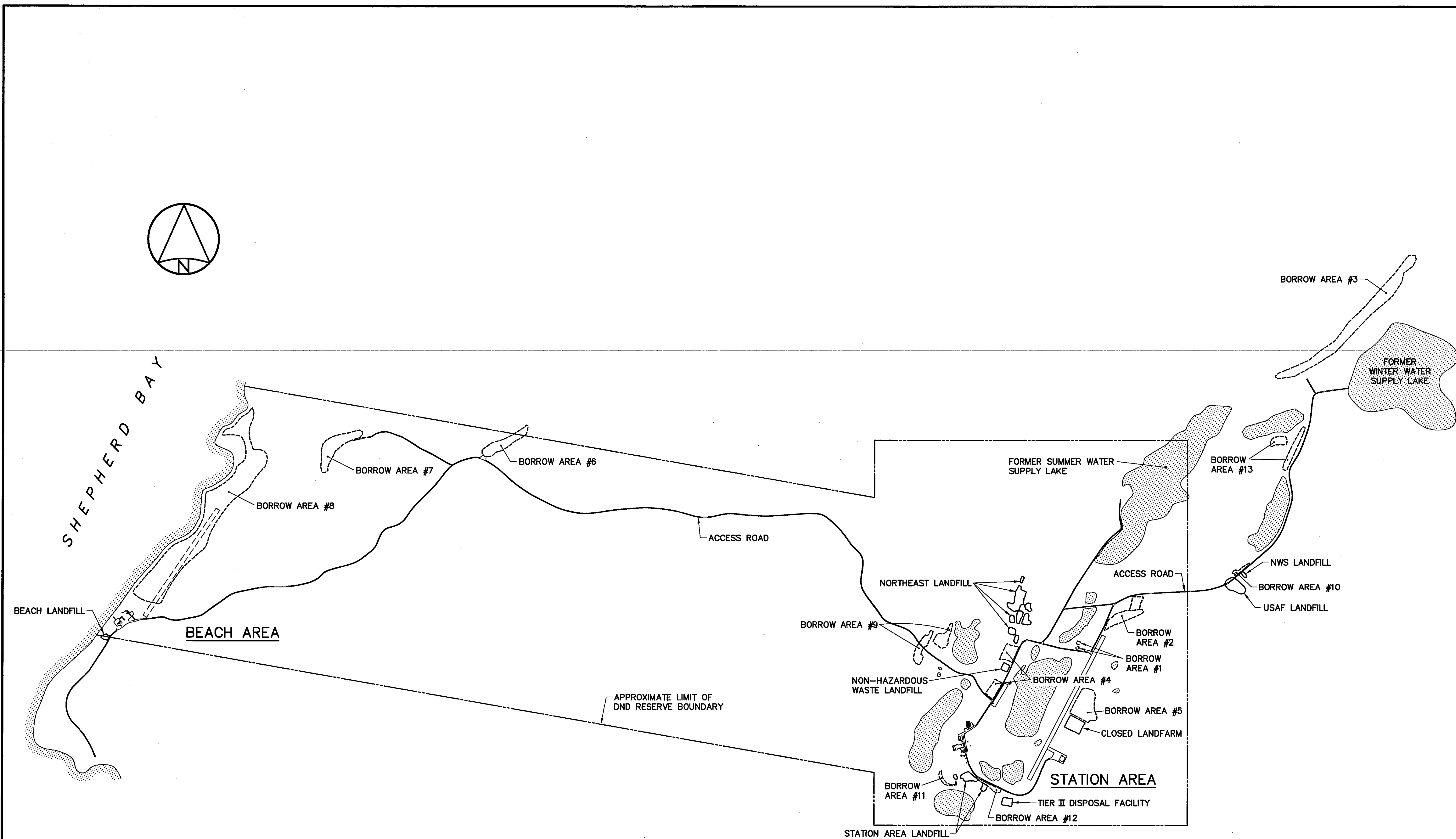
## 5. Reporting Procedures

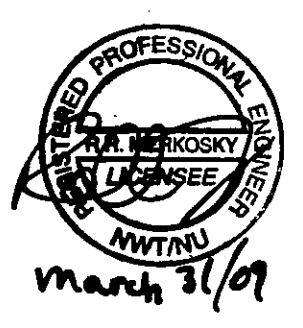
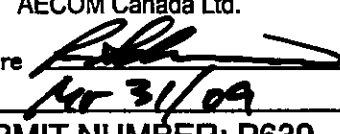
When reporting a spill to the 24 Hour Spill Report Line and completing the Nunavut Spill Report Form, the following information shall be included:

- Date and time of the spill;
- Location of the spill and direction the spill may be moving;
- Name and phone number of a contact person close to the location of the spill;
- Type and quantity of contaminant spilled;
- Cause of the spill;
- Whether the spill is continuing or has stopped;
- Description of the existing containment;
- Action taken to contain, recover, clean up and dispose of spilled material;
- Name, address and phone number of the person reporting the spill; and
- Name of owner or person in charge, management or control of the contaminants at the time of the spill.

The follow up spill report is to be submitted to the Crown-Indigenous Affairs and Northern Development Canada (CIRNAC) Water Resources Officer no later than 30 days after initially reporting the spill to the spill report line.

The contact list is provided in Section 3.2.



|                                                                                                                                                                                                                                                         |          |                                                                                                                                                                                                                                                                |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  <b>National Defence</b> <b>Défense nationale</b>                                                                                                                    |          |                                                                                                                                                                                                                                                                |                                                                                       |
| <b>Headquarters</b><br><b>Quartier général</b>                                                                                                                                                                                                          |          |                                                                                                                                                                                                                                                                |                                                                                       |
| General Notes:<br>1. ARCHAEOLOGICAL FEATURES LOCATED AS PER ENVIRONMENTAL CLEAN UP STUDY OF 21 DEW LINE SITES IN CANADA, VOL. 15, UMA 1991.<br>2. ALL NON-HAZARDOUS DEBRIS REMOVED WITHIN THE PLAN AREA WAS PLACED IN THE NON-HAZARDOUS WASTE LANDFILL. |          |                                                                                                                                                                                                                                                                |                                                                                       |
| Legend:<br>— APPROXIMATE LOCATION OF PROPERTY BOUNDARY<br>○ APPROXIMATE EXTENT OF BORROW AREA<br>● BODY OF WATER                                                                                                                                        |          |                                                                                                                                                                                                                                                                |                                                                                       |
| 0                                                                                                                                                                                                                                                       | 09-03-30 | AS-BUILT DRAWING                                                                                                                                                                                                                                               | RRM                                                                                   |
| No.                                                                                                                                                                                                                                                     | DATE     | REVISION                                                                                                                                                                                                                                                       | APPR.                                                                                 |
| <br>March 31/09                                                                                                                                                    |          | PERMIT TO PRACTICE<br>AECOM Canada Ltd.<br>Signature: <br>Date: <u>Mar 31/09</u><br>PERMIT NUMBER: P639<br>NWT/NU Association of Professional Engineers and Geoscientists |                                                                                       |
| UMA                                                                                                                                                                                                                                                     |          | AECOM                                                                                                                                                                                                                                                          |  |
| SCALE - ECHELLE 300 150 0 300 600 900m                                                                                                                                                                                                                  |          |                                                                                                                                                                                                                                                                |                                                                                       |
| PROJECT - PROJET<br><b>CAM-3 SHEPHERD BAY</b>                                                                                                                                                                                                           |          |                                                                                                                                                                                                                                                                |                                                                                       |
| <b>DEW LINE CLEAN UP</b><br>© COPYRIGHT<br>HER MAJESTY THE QUEEN IN RIGHT OF CANADA 2009, AS REPRESENTED BY THE MINISTER OF NATIONAL DEFENCE.                                                                                                           |          |                                                                                                                                                                                                                                                                |                                                                                       |
| TRADE - METIER<br><b>SITING</b>                                                                                                                                                                                                                         |          | DATE<br><b>2004-12-10</b>                                                                                                                                                                                                                                      |                                                                                       |
| SUBJECT - SUJET<br><b>OVERALL SITE PLAN</b>                                                                                                                                                                                                             |          |                                                                                                                                                                                                                                                                |                                                                                       |
| PRODUCTION                                                                                                                                                                                                                                              |          | CONCURRENCE - ASSENTIMENT                                                                                                                                                                                                                                      |                                                                                       |
| DESIGNED<br>ETUDIE <b>AMP/RRM</b>                                                                                                                                                                                                                       |          | DES OFF<br>AGENT CONCEPT                                                                                                                                                                                                                                       |                                                                                       |
| DRAWN<br>DESSINE <b>RM/LJV</b>                                                                                                                                                                                                                          |          | SECT HD<br>CHEF SECT                                                                                                                                                                                                                                           |                                                                                       |
| CHECKED<br>VERIFIE <b>KMS</b>                                                                                                                                                                                                                           |          | DES MGR<br>GEST CONCEPT                                                                                                                                                                                                                                        |                                                                                       |
| COORDINATION<br><b>SMS</b>                                                                                                                                                                                                                              |          | REVIEWED - REVU                                                                                                                                                                                                                                                |                                                                                       |
| DWG. NO. - DESSIN NO.<br>H-S123/2-9101-101                                                                                                                                                                                                              |          |                                                                                                                                                                                                                                                                |                                                                                       |



Canada

# NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

**REPORT LINE USE ONLY**

|          |                                                                                                                                          |          |                                               |                                      |                                                                                                                                  |                                     |
|----------|------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| <b>A</b> | REPORT DATE: MONTH – DAY – YEAR                                                                                                          |          | REPORT TIME                                   |                                      | <input type="checkbox"/> ORIGINAL SPILL REPORT,<br>OR<br><input type="checkbox"/> UPDATE # _____<br>TO THE ORIGINAL SPILL REPORT | <b>REPORT NUMBER</b><br>_____-_____ |
|          | <b>B</b> OCCURRENCE DATE: MONTH – DAY – YEAR                                                                                             |          | OCCURRENCE TIME                               |                                      |                                                                                                                                  |                                     |
| <b>C</b> | LAND USE PERMIT NUMBER (IF APPLICABLE)                                                                                                   |          |                                               | WATER LICENCE NUMBER (IF APPLICABLE) |                                                                                                                                  |                                     |
|          | <b>D</b> GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION                                                             |          |                                               |                                      | REGION<br><input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN  |                                     |
| <b>E</b> | LATITUDE                                                                                                                                 |          |                                               | LONGITUDE                            |                                                                                                                                  |                                     |
|          | DEGREES                                                                                                                                  | MINUTES  | SECONDS                                       | DEGREES                              | MINUTES                                                                                                                          | SECONDS                             |
| <b>F</b> | RESPONSIBLE PARTY OR VESSEL NAME                                                                                                         |          | RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION  |                                      |                                                                                                                                  |                                     |
|          | <b>G</b> ANY CONTRACTOR INVOLVED                                                                                                         |          | CONTRACTOR ADDRESS OR OFFICE LOCATION         |                                      |                                                                                                                                  |                                     |
| <b>H</b> | PRODUCT SPILLED                                                                                                                          |          | QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES |                                      | U.N. NUMBER                                                                                                                      |                                     |
|          | SECOND PRODUCT SPILLED (IF APPLICABLE)                                                                                                   |          | QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES |                                      | U.N. NUMBER                                                                                                                      |                                     |
| <b>I</b> | SPILL SOURCE                                                                                                                             |          | SPILL CAUSE                                   |                                      | AREA OF CONTAMINATION IN SQUARE METRES                                                                                           |                                     |
|          | <b>J</b> FACTORS AFFECTING SPILL OR RECOVERY                                                                                             |          | DESCRIBE ANY ASSISTANCE REQUIRED              |                                      | HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT                                                                                      |                                     |
| <b>K</b> | ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS |          |                                               |                                      |                                                                                                                                  |                                     |
|          |                                                                                                                                          |          |                                               |                                      |                                                                                                                                  |                                     |
| <b>L</b> | REPORTED TO SPILL LINE BY                                                                                                                | POSITION | EMPLOYER                                      | LOCATION CALLING FROM                | TELEPHONE                                                                                                                        |                                     |
|          | <b>M</b> ANY ALTERNATE CONTACT                                                                                                           | POSITION | EMPLOYER                                      | ALTERNATE CONTACT LOCATION           | ALTERNATE TELEPHONE                                                                                                              |                                     |

**REPORT LINE USE ONLY**

|                                                                                                                                                                                                                                                    |                           |                  |                                                                                                             |                 |                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------|-------------------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------------|
| <b>N</b>                                                                                                                                                                                                                                           | RECEIVED AT SPILL LINE BY | POSITION         | EMPLOYER                                                                                                    | LOCATION CALLED | REPORT LINE NUMBER                                                        |
|                                                                                                                                                                                                                                                    |                           | STATION OPERATOR |                                                                                                             | YELLOWKNIFE, NT | (867) 920-8130                                                            |
| LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC |                           |                  | SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN |                 | FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED |
| AGENCY                                                                                                                                                                                                                                             |                           | CONTACT NAME     | CONTACT TIME                                                                                                | REMARKS         |                                                                           |
| LEAD AGENCY                                                                                                                                                                                                                                        |                           |                  |                                                                                                             |                 |                                                                           |
| FIRST SUPPORT AGENCY                                                                                                                                                                                                                               |                           |                  |                                                                                                             |                 |                                                                           |
| SECOND SUPPORT AGENCY                                                                                                                                                                                                                              |                           |                  |                                                                                                             |                 |                                                                           |
| THIRD SUPPORT AGENCY                                                                                                                                                                                                                               |                           |                  |                                                                                                             |                 |                                                                           |

# SAFETY DATA SHEET

## GASOLINE, UNLEADED



000003000644

Version 3.0

Revision Date 2019/06/14

Print Date 2019/06/14

### SECTION 1. IDENTIFICATION

Product name : GASOLINE, UNLEADED

Synonyms : TN-PE-TM15-X00-1499; Regular, Unleaded Gasoline (US Grade), Mid-Grade, Plus, Super, WinterGas, SummerGas, Supreme, SuperClean, SuperClean WinterGas, Regular-Clean, PlusClean, Premium, marked or dyed gasoline, TQRUL, transitional quality regular unleaded, BOB, Blend-stock for Oxygenate Blending, Conventional Gasoline, RUL, MUL, SUL, PUL.

Product code : 100127, 100126, 101823, 100507, 101811, 101814, 100141, 101813, 101810, 101812, 100063, 101822, 100138, 101821, 100064, 101820, 101819, 100506, 101818, 101816, 101817, 100488

Manufacturer or supplier's details  
Petro-Canada  
P.O. Box 2844, 150 - 6th Avenue South-West  
Calgary Alberta T2P 3E3  
Canada

Emergency telephone number  
Suncor Energy: +1 403-296-3000;  
Canutec Transportation: 1-888-226-8832 (toll-free) or 613-996-6666;  
Poison Control Centre: Consult local telephone directory for emergency number(s).

#### Recommended use of the chemical and restrictions on use

Recommended use : Unleaded gasoline is used in spark ignition engines including motor vehicles, inboard and outboard boat engines, small engines such as chain saws and lawn mowers, and recreational vehicles.

Prepared by : Product Safety: +1 905-804-4752

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                                                                                          |
|------------|------------------------------------------------------------------------------------------|
| Appearance | Clear liquid.                                                                            |
| Colour     | Clear to slightly yellow or green, undyed liquid. May be dyed red for taxation purposes. |
| Odour      | Gasoline                                                                                 |

#### GHS Classification

Flammable liquids : Category 1

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|                                                       |                                       |
|-------------------------------------------------------|---------------------------------------|
| Skin irritation                                       | : Category 2                          |
| Germ cell mutagenicity                                | : Category 1B                         |
| Carcinogenicity                                       | : Category 1A                         |
| Reproductive toxicity                                 | : Category 2                          |
| Specific target organ toxicity<br>- single exposure   | : Category 3 (Central nervous system) |
| Specific target organ toxicity<br>- repeated exposure | : Category 1                          |
| Aspiration hazard                                     | : Category 1                          |

### GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Extremely flammable liquid and vapour.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause drowsiness or dizziness.  
May cause genetic defects.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements : **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground and bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting equipment.  
Use non-sparking tools.  
Take action to prevent static discharges.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
IF exposed or concerned: Get medical advice/ attention.

Do NOT induce vomiting.

If skin irritation occurs: Get medical advice/ attention.

Take off contaminated clothing and wash it before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

### Potential Health Effects

Primary Routes of Entry : Eye contact  
Ingestion  
Inhalation  
Skin contact

Aggravated Medical Condition : None known.

### Other hazards

None known.

### IARC

Group 1: Carcinogenic to humans

Benzene 71-43-2

### ACGIH

Confirmed human carcinogen

Benzene 71-43-2

Confirmed animal carcinogen with unknown relevance to humans

Gasoline 86290-81-5

Ethanol 64-17-5

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

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## GASOLINE, UNLEADED



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| Chemical name                                    | CAS-No.    | Concentration |
|--------------------------------------------------|------------|---------------|
| Gasoline; Low boiling point naphtha -unspecified | 86290-81-5 | 95 - 100 %    |
| toluene                                          | 108-88-3   | 1 - 40 %      |
| benzene                                          | 71-43-2    | 0.5 - 1.5 %   |
| ethanol                                          | 64-17-5    | 0.1 - 0.3 %   |

All above concentrations are in percent by weight.

### SECTION 4. FIRST AID MEASURES

- If inhaled : Move to fresh air.  
Artificial respiration and/or oxygen may be necessary.  
Seek medical advice.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Wash skin thoroughly with soap and water or use recognized skin cleanser.  
Wash clothing before reuse.  
Seek medical advice.
- In case of eye contact : Remove contact lenses.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Obtain medical attention.
- If swallowed : Rinse mouth with water.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Never give anything by mouth to an unconscious person.  
Seek medical advice.
- Most important symptoms and effects, both acute and delayed : Inhalation may cause central nervous system effects.  
Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.  
Chronic exposure to benzene may result in increased risk of leukemia and other blood disorders.
- Notes to physician : Treat symptomatically.  
Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Water fog.  
Foam

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|                                               |                                                                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable extinguishing media                | : Do NOT use water jet.                                                                                                                                                                                        |
| Specific hazards during fire-fighting         | : Cool closed containers exposed to fire with water spray.                                                                                                                                                     |
| Hazardous combustion products                 | : Carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), polynuclear aromatic hydrocarbons, phenols, aldehydes, ketones, smoke and irritating vapours as products of incomplete combustion. |
| Further information                           | : Prevent fire extinguishing water from contaminating surface water or the ground water system.                                                                                                                |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus and full protective wear.<br>Wear a positive-pressure supplied-air respirator with full face-piece.                                                                  |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                                                                                     |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : For personal protection see section 8.<br>Ensure adequate ventilation.<br>Evacuate personnel to safe areas.<br>Material can create slippery conditions.                                                                                           |
| Environmental precautions                                           | : If the product contaminates rivers and lakes or drains inform respective authorities.                                                                                                                                                             |
| Methods and materials for containment and cleaning up               | : Prevent further leakage or spillage if safe to do so.<br>Remove all sources of ignition.<br>Soak up with inert absorbent material.<br>Non-sparking tools should be used.<br>Ensure adequate ventilation.<br>Contact the proper local authorities. |

### SECTION 7. HANDLING AND STORAGE

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling     | : For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Use only with adequate ventilation.<br>In case of insufficient ventilation, wear suitable respiratory equipment.<br>Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.<br>Avoid contact with skin, eyes and clothing.<br>Do not ingest.<br>Keep away from heat and sources of ignition.<br>Keep container closed when not in use. |
| Conditions for safe storage | : Store in original container.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.                                                                                                                                                                                                                                                                                                                                                                                                      |

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Keep in a dry, cool and well-ventilated place.  
Keep in properly labelled containers.  
To maintain product quality, do not store in heat or direct sunlight.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components                                       | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|--------------------------------------------------|------------|----------------------------------|------------------------------------------------|-----------|
| toluene                                          | 108-88-3   | TWA                              | 50 ppm<br>188 mg/m <sup>3</sup>                | CA AB OEL |
|                                                  |            | TWA                              | 20 ppm                                         | CA BC OEL |
|                                                  |            | TWAEV                            | 50 ppm<br>188 mg/m <sup>3</sup>                | CA QC OEL |
|                                                  |            | TWA                              | 20 ppm                                         | ACGIH     |
| benzene                                          | 71-43-2    | TWA                              | 0.5 ppm<br>1.6 mg/m <sup>3</sup>               | CA AB OEL |
|                                                  |            | STEL                             | 2.5 ppm<br>8 mg/m <sup>3</sup>                 | CA AB OEL |
|                                                  |            | TWA                              | 0.5 ppm                                        | CA BC OEL |
|                                                  |            | STEL                             | 2.5 ppm                                        | CA BC OEL |
|                                                  |            | TWA                              | 0.5 ppm                                        | CA ON OEL |
|                                                  |            | STEL                             | 2.5 ppm                                        | CA ON OEL |
|                                                  |            | TWAEV                            | 1 ppm<br>3 mg/m <sup>3</sup>                   | CA QC OEL |
|                                                  |            | STEV                             | 5 ppm<br>15.5 mg/m <sup>3</sup>                | CA QC OEL |
|                                                  |            | TWA                              | 0.5 ppm                                        | ACGIH     |
|                                                  |            | STEL                             | 2.5 ppm                                        | ACGIH     |
| Gasoline; Low boiling point naphtha -unspecified | 86290-81-5 | TWA                              | 300 ppm                                        | CA AB OEL |
|                                                  |            | STEL                             | 500 ppm                                        | CA AB OEL |
|                                                  |            | TWA                              | 300 ppm                                        | CA BC OEL |
|                                                  |            | STEL                             | 500 ppm                                        | CA BC OEL |
|                                                  |            | TWA                              | 300 ppm                                        | ACGIH     |
|                                                  |            | STEL                             | 500 ppm                                        | ACGIH     |
| ethanol                                          | 64-17-5    | TWA                              | 1,000 ppm<br>1,880 mg/m <sup>3</sup>           | CA AB OEL |
|                                                  |            | STEL                             | 1,000 ppm                                      | CA BC OEL |
|                                                  |            | TWAEV                            | 1,000 ppm<br>1,880 mg/m <sup>3</sup>           | CA QC OEL |
|                                                  |            | STEL                             | 1,000 ppm                                      | ACGIH     |

#### Biological occupational exposure limits

| Components | CAS-No.  | Control parameters | Biological specimen | Sampling time                | Permissible concentration | Basis     |
|------------|----------|--------------------|---------------------|------------------------------|---------------------------|-----------|
| Toluene    | 108-88-3 | Toluene            | In blood            | Prior to last shift of work- | 0.02 mg/l                 | ACGIH BEI |

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|  |  |         |       |                                                          |           |           |
|--|--|---------|-------|----------------------------------------------------------|-----------|-----------|
|  |  |         |       | week                                                     |           |           |
|  |  | Toluene | Urine | End of shift (As soon as possible after exposure ceases) | 0.03 mg/l | ACGIH BEI |

**Engineering measures** : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.  
Use only in well-ventilated areas.  
Ensure that eyewash station and safety shower are proximal to the work-station location.

### Personal protective equipment

**Respiratory protection** : Concentration in air determines protection needed.  
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Filter type** : A NIOSH-approved air-purifying respirator with an organic vapour cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive-pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

**Hand protection**  
**Material** : polyvinyl alcohol (PVA), Viton(R). Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

**Remarks** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eye protection** : Wear face-shield and protective suit for abnormal processing problems.

**Skin and body protection** : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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|                     |                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective measures | : Wash contaminated clothing before re-use.                                                                                                                  |
| Hygiene measures    | : Remove and wash contaminated clothing and gloves, including the inside, before re-use.<br>Wash face, hands and any exposed skin thoroughly after handling. |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                        |                                                                                                                                                                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                             | : Clear liquid.                                                                                                                                                                                                                                                                             |
| Colour                                 | : Clear to slightly yellow or green, undyed liquid. May be dyed red for taxation purposes.                                                                                                                                                                                                  |
| Odour                                  | : Gasoline                                                                                                                                                                                                                                                                                  |
| Odour Threshold                        | : No data available                                                                                                                                                                                                                                                                         |
| pH                                     | : No data available                                                                                                                                                                                                                                                                         |
| Melting point                          | : No data available                                                                                                                                                                                                                                                                         |
| Boiling point/boiling range            | : 25 - 225 °C (77 - 437 °F)                                                                                                                                                                                                                                                                 |
| Decomposition temperature              | No data available                                                                                                                                                                                                                                                                           |
| Flash point                            | : -50 - -38 °C (-58 - -36 °F)<br>Method: Tagliabue.                                                                                                                                                                                                                                         |
| Auto-Ignition Temperature              | : 257 °C (495 °F)                                                                                                                                                                                                                                                                           |
| Evaporation rate                       | : No data available                                                                                                                                                                                                                                                                         |
| Flammability                           | : Extremely flammable in presence of open flames, sparks, shocks, and heat. Vapours are heavier than air and may travel considerable distance to sources of ignition and flash back. Rapid escape of vapour may generate static charge causing ignition. May accumulate in confined spaces. |
| Upper explosion limit                  | : 7.6 %(V)                                                                                                                                                                                                                                                                                  |
| Lower explosion limit                  | : 1.3 %(V)                                                                                                                                                                                                                                                                                  |
| Vapour pressure                        | : < 802.5 mmHg (20 °C / 68 °F)                                                                                                                                                                                                                                                              |
| Relative vapour density                | : 3                                                                                                                                                                                                                                                                                         |
| Relative density                       | : 0.685 - 0.8                                                                                                                                                                                                                                                                               |
| Solubility(ies)                        |                                                                                                                                                                                                                                                                                             |
| Water solubility                       | : insoluble                                                                                                                                                                                                                                                                                 |
| Partition coefficient: n-octanol/water | : No data available                                                                                                                                                                                                                                                                         |

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Viscosity

Viscosity, kinematic : No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : Extremes of temperature and direct sunlight.

Incompatible materials : Reactive with oxidising agents, acids and interhalogens.

Hazardous decomposition products : May release CO<sub>x</sub>, NO<sub>x</sub>, phenols, polycyclic aromatic hydrocarbons, aldehydes, ketones, smoke and irritating vapours when heated to decomposition.

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Eye contact

Ingestion

Inhalation

Skin contact

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

##### Components:

##### **Gasoline; Low boiling point naphtha -unspecified:**

Acute oral toxicity : LD50 (Rat): 13,600 mg/kg,

Acute dermal toxicity : LD50 (Rabbit): > 3,750 mg/kg,

##### **toluene:**

Acute oral toxicity : LD50 (Rat): 5,580 mg/kg,

Acute inhalation toxicity : LC50 (Rat): 7585 ppm

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Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 12,125 mg/kg,

### **benzene:**

Acute oral toxicity : LD50 (Rat): 2,990 mg/kg,

Acute inhalation toxicity : LC50 (Rat): 13700 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 8,240 mg/kg,

### **ethanol:**

Acute oral toxicity : LD50 (Rat): 7,060 mg/kg,

Acute inhalation toxicity : LC50 (Rat): > 32380 ppm  
Exposure time: 4 h  
Test atmosphere: vapour

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Causes skin irritation.

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Based on available data, the classification criteria are not met.

### **Respiratory or skin sensitisation**

#### **Product:**

Remarks: Based on available data, the classification criteria are not met.

### **Germ cell mutagenicity**

#### **Product:**

Germ cell mutagenicity-  
Assessment May cause genetic defects.

### **Carcinogenicity**

#### **Product:**

Carcinogenicity - As-  
sessment May cause cancer.

### **Reproductive toxicity**

#### **Product:**

Reproductive toxicity - Suspected of damaging fertility or the unborn child.

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Assessment

### STOT - single exposure

#### Product:

Remarks: May cause drowsiness or dizziness.

### STOT - repeated exposure

#### Product:

Remarks: Causes damage to organs through prolonged or repeated exposure.

No data available

### Aspiration toxicity

#### Product:

May be fatal if swallowed and enters airways.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

Toxicity to bacteria : Remarks: No data available

### Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Offer surplus and non-recyclable solutions to a licensed disposal company.  
Waste must be classified and labelled prior to recycling or disposal.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### IATA-DGR

UN/ID No. : UN 1203  
Proper shipping name : Gasoline  
Class : 3  
Packing group : II  
Labels : Class 3 - Flammable Liquid  
Packing instruction (cargo aircraft) : 364

##### IMDG-Code

UN number : UN 1203  
Proper shipping name : GASOLINE  
  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

#### National Regulations

##### TDG

UN number : UN 1203  
Proper shipping name : GASOLINE  
  
Class : 3  
Packing group : II  
Labels : 3  
ERG Code : 128  
Marine pollutant : no

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### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

**The components of this product are reported in the following inventories:**

**DSL** On the inventory, or in compliance with the inventory

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### SECTION 16. OTHER INFORMATION

For Copy of SDS : Internet: [www.petro-canada.ca/msds](http://www.petro-canada.ca/msds)  
Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-1228  
For Product Safety Information: 1 905-804-4752

Prepared by : Product Safety: +1 905-804-4752

Revision Date : 2019/06/14

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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## DIESEL FUEL

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### SECTION 1. IDENTIFICATION

Product name : DIESEL FUEL

Synonyms : Seasonal Diesel, #1 Diesel, #2 Heating Oil, #1 Heating Oil, D50, Arctic Diesel, Farm Diesel, Marine Diesel, Low Sulphur Diesel, LSD, Ultra Low Sulphur Diesel, ULSD, Mining Diesel, Naval Distillate, Dyed Diesel, Marked Diesel, Coloured Diesel, Furnace special, Biodiesel blend, B1, B2, B5, Diesel Low Cloud (LC), Marine Gas Oil, Marine Gas Oil Dyed.

Product code : 102907, 102762, 102763, 102755, 102302, 102744, 101801, 100678, 100677, 101802, 100107, 100668, 100658, 100911, 100663, 100652, 100460, 100065, 101796, 101793, 101795, 101792, 101794, 101791, 100768, 100643, 100642, 100103, 101798, 101800, 101797, 101788, 101789, 101787, 102531, 100734, 100733, 100640, 100997, 100995, 100732, 100731, 100994

Manufacturer or supplier's details  
Petro-Canada  
P.O. Box 2844, 150 - 6th Avenue South-West  
Calgary Alberta T2P 3E3  
Canada

Emergency telephone number  
Suncor Energy: +1 403-296-3000;  
Canutec Transportation: 1-888-226-8832 (toll-free) or 613-996-6666;  
Poison Control Centre: Consult local telephone directory for emergency number(s).

#### Recommended use of the chemical and restrictions on use

Recommended use : Diesel fuels are distillate fuels suitable for use in high and medium speed internal combustion engines of the compression ignition type. Mining diesels, marine diesels, MDO and naval distillates may have a higher flash point requirement.

Prepared by : Product Safety: +1 905-804-4752

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                                                                      |
|------------|----------------------------------------------------------------------|
| Appearance | Bright oily liquid.                                                  |
| Colour     | Clear to yellow (This product may be dyed red for taxation purposes) |
| Odour      | Mild petroleum oil like.                                             |

#### GHS Classification

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|                                                       |                                       |
|-------------------------------------------------------|---------------------------------------|
| Flammable liquids                                     | : Category 3                          |
| Acute toxicity (Inhalation)                           | : Category 4                          |
| Skin irritation                                       | : Category 2                          |
| Carcinogenicity                                       | : Category 2                          |
| Specific target organ toxicity<br>- single exposure   | : Category 3 (Central nervous system) |
| Specific target organ toxicity<br>- repeated exposure | : Category 2 (Liver, thymus, Bone)    |
| Aspiration hazard                                     | : Category 1                          |

### GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : Flammable liquid and vapour.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Harmful if inhaled.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
May cause damage to organs (Liver, thymus, Bone) through prolonged or repeated exposure.

Precautionary statements : **Prevention:**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep container tightly closed.  
Ground and bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting equipment.  
Use non-sparking tools.  
Take action to prevent static discharges.  
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
Wash skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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IF exposed or concerned: Get medical advice/ attention.  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash it before reuse.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.

### Disposal:

Dispose of contents/ container to an approved waste disposal plant.

### Potential Health Effects

Primary Routes of Entry : Eye contact  
Ingestion  
Inhalation  
Skin contact

Aggravated Medical Condition : None known.

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Hazardous components

| Chemical name                                                  | CAS-No.     | Concentration |
|----------------------------------------------------------------|-------------|---------------|
| Kerosine (petroleum), hydrodesulfurized; Kerosine -unspecified | 64742-81-0  | 70 - 100 %    |
| Kerosine (petroleum); Straight run kerosine                    | 8008-20-6   |               |
| Fuels, diesel; Gasoil -unspecified                             | 68334-30-5  |               |
| Alkanes, C10-20-branched and linear                            | 928771-01-1 | 0 - 30 %      |
| Fatty acids, C16-18 and C18-unsatd., Me esters                 | 67762-38-3  | 0 - 20 %      |

All concentrations are in percent by weight.

## SECTION 4. FIRST AID MEASURES

If inhaled : Move to fresh air.  
Artificial respiration and/or oxygen may be necessary.  
Seek medical advice.

In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Wash skin thoroughly with soap and water or use recognized skin cleanser.

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|                                                             |                                                                                                                                                                                                         |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | Wash clothing before reuse.<br>Seek medical advice.                                                                                                                                                     |
| In case of eye contact                                      | : Remove contact lenses.<br>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Obtain medical attention.                                                       |
| If swallowed                                                | : Rinse mouth with water.<br>DO NOT induce vomiting unless directed to do so by a physician or poison control center.<br>Never give anything by mouth to an unconscious person.<br>Seek medical advice. |
| Most important symptoms and effects, both acute and delayed | : Harmful if inhaled.<br>Respiratory, skin and eye irritation; nausea; cancer.                                                                                                                          |
| Notes to physician                                          | : Treat symptomatically.<br>For specialist advice physicians should contact the Poisons Information Service.                                                                                            |

### SECTION 5. FIREFIGHTING MEASURES

|                                               |                                                                                                                                                                                   |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Dry chemical<br>Carbon dioxide (CO <sub>2</sub> )<br>Water fog.<br>Foam                                                                                                         |
| Unsuitable extinguishing media                | : Do NOT use water jet.                                                                                                                                                           |
| Specific hazards during fire-fighting         | : Cool closed containers exposed to fire with water spray.                                                                                                                        |
| Hazardous combustion products                 | : Carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO <sub>x</sub> ), sulphur oxides (SO <sub>x</sub> ), smoke and irritating vapours as products of incomplete combustion. |
| Further information                           | : Prevent fire extinguishing water from contaminating surface water or the ground water system.                                                                                   |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                          |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                           |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : For personal protection see section 8.<br>Ensure adequate ventilation.<br>Evacuate personnel to safe areas.<br>Material can create slippery conditions. |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Environmental precautions | : If the product contaminates rivers and lakes or drains inform |
|---------------------------|-----------------------------------------------------------------|

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respective authorities.

Methods and materials for containment and cleaning up : Prevent further leakage or spillage if safe to do so.  
Remove all sources of ignition.  
Soak up with inert absorbent material.  
Non-sparking tools should be used.  
Ensure adequate ventilation.  
Contact the proper local authorities.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Use only with adequate ventilation.  
In case of insufficient ventilation, wear suitable respiratory equipment.  
Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity.  
Avoid contact with skin, eyes and clothing.  
Do not ingest.  
Keep away from heat and sources of ignition.  
Keep container closed when not in use.

Conditions for safe storage : Store in original container.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Keep in a dry, cool and well-ventilated place.  
Keep in properly labelled containers.  
To maintain product quality, do not store in heat or direct sunlight.  
Ensure the storage containers are grounded/bonded.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components                                                      | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration         | Basis     |
|-----------------------------------------------------------------|------------|----------------------------------|--------------------------------------------------------|-----------|
| Kerosine (petroleum), hydrodesulfurized; Kerosine - unspecified | 64742-81-0 | TWA                              | 200 mg/m <sup>3</sup><br>(As total hydrocarbon vapour) | ACGIH     |
|                                                                 |            | TWA                              | 200 mg/m <sup>3</sup><br>(total hydrocarbon vapor)     | CA AB OEL |
|                                                                 |            | TWA                              | 525 mg/m <sup>3</sup>                                  | CA ON OEL |
|                                                                 |            | TWA                              | 200 mg/m <sup>3</sup><br>(As total hydrocarbon vapour) | ACGIH     |
|                                                                 |            | TWA                              | 200 mg/m <sup>3</sup><br>(total hydrocarbon            | ACGIH     |

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|                                             |            |                                     |                                     |           |
|---------------------------------------------|------------|-------------------------------------|-------------------------------------|-----------|
|                                             |            |                                     | vapor)                              |           |
| Kerosine (petroleum); Straight run kerosine | 8008-20-6  | TWA                                 | 200 mg/m3 (total hydrocarbon vapor) | CA BC OEL |
|                                             |            | TWA                                 | 200 mg/m3 (total hydrocarbon vapor) | CA AB OEL |
|                                             |            | TWA                                 | 200 mg/m3 (total hydrocarbon vapor) | ACGIH     |
| Fuels, diesel; Gasoil - unspecified         | 68334-30-5 | TWA                                 | 100 mg/m3 (total hydrocarbons)      | CA AB OEL |
|                                             |            | TWA (Vapour and inhalable aerosols) | 100 mg/m3 (total hydrocarbons)      | CA BC OEL |
|                                             |            | TWA (Inhalable fraction and vapor)  | 100 mg/m3 (total hydrocarbons)      | ACGIH     |

**Engineering measures** : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.  
Use only in well-ventilated areas.  
Ensure that eyewash station and safety shower are proximal to the work-station location.

### Personal protective equipment

**Respiratory protection** : Concentration in air determines protection needed.  
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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

**Hand protection**  
**Material** : neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R). Consult your PPE provider for breakthrough times and the specific glove that is best for you based on your use patterns. It should be realized that eventually any material regardless of their imperviousness, will get permeated by chemicals. Therefore, protective gloves should be regularly checked for wear and tear. At the first signs of hardening and cracks, they should be changed.

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|                          |                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks                  | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. |
| Eye protection           | : Wear face-shield and protective suit for abnormal processing problems.                                                                                                                  |
| Skin and body protection | : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.                                                |
| Protective measures      | : Wash contaminated clothing before re-use.                                                                                                                                               |
| Hygiene measures         | : Remove and wash contaminated clothing and gloves, including the inside, before re-use.<br>Wash face, hands and any exposed skin thoroughly after handling.                              |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                             |                                                                                                                                                                                                                         |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance                  | : Bright oily liquid.                                                                                                                                                                                                   |
| Colour                      | : Clear to yellow (This product may be dyed red for taxation purposes)                                                                                                                                                  |
| Odour                       | : Mild petroleum oil like.                                                                                                                                                                                              |
| Odour Threshold             | : No data available                                                                                                                                                                                                     |
| pH                          | : No data available                                                                                                                                                                                                     |
| Melting point               | : No data available                                                                                                                                                                                                     |
| Boiling point/boiling range | : 150 - 371 °C (302 - 700 °F)                                                                                                                                                                                           |
| decomposition temperature   | No data available                                                                                                                                                                                                       |
| Flash point                 | : > 40 °C (104 °F)<br>Method: closed cup                                                                                                                                                                                |
| Auto-Ignition Temperature   | : 225 °C (437 °F)                                                                                                                                                                                                       |
| Evaporation rate            | : No data available                                                                                                                                                                                                     |
| Flammability                | : Flammable in presence of open flames, sparks and heat. Vapours are heavier than air and may travel considerable distance to sources of ignition and flash back. This product can accumulate static charge and ignite. |
| Upper explosion limit       | : 6 %(V)                                                                                                                                                                                                                |
| Lower explosion limit       | : 0.7 %(V)                                                                                                                                                                                                              |
| Vapour pressure             | : 7.5 mmHg (20 °C / 68 °F)                                                                                                                                                                                              |

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|                                        |                                  |
|----------------------------------------|----------------------------------|
| Relative vapour density                | : 4.5                            |
| Relative density                       | : 0.8 - 0.88                     |
| Solubility(ies)                        |                                  |
| Water solubility                       | : insoluble                      |
| Partition coefficient: n-octanol/water | : No data available              |
| Viscosity                              |                                  |
| Viscosity, kinematic                   | : 1.3 - 4.1 cSt (40 °C / 104 °F) |

---

### SECTION 10. STABILITY AND REACTIVITY

|                                    |                                                                                         |
|------------------------------------|-----------------------------------------------------------------------------------------|
| Reactivity                         | : Stable at normal ambient temperature and pressure.                                    |
| Chemical stability                 | : Stable under normal conditions.                                                       |
| Possibility of hazardous reactions | : Hazardous polymerisation does not occur.                                              |
| Conditions to avoid                | : Extremes of temperature and direct sunlight.                                          |
| Incompatible materials             | : Reactive with oxidising agents and acids.                                             |
| Hazardous decomposition products   | : May release COx, NOx, SOx, smoke and irritating vapours when heated to decomposition. |

---

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Eye contact  
Ingestion  
Inhalation  
Skin contact

#### Acute toxicity

##### Product:

|                           |                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : Remarks: No data available                                                                                          |
| Acute inhalation toxicity | : Acute toxicity estimate: 1.2 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |
| Acute dermal toxicity     | : Remarks: No data available                                                                                          |

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### **Components:**

#### **Kerosine (petroleum), hydrodesulfurized; Kerosine -unspecified:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg,

Acute inhalation toxicity : LC50 (Rat): > 5.2 mg/l  
Exposure time: 4 hrs  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg,

#### **Kerosine (petroleum); Straight run kerosine:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg,

Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg,

#### **Fuels, diesel; Gasoil -unspecified:**

Acute oral toxicity : LD50 (Rat): 7,500 mg/kg,

Acute dermal toxicity : LD50 (Mouse): 24,500 mg/kg,

### **Skin corrosion/irritation**

#### **Product:**

Remarks: Causes skin irritation.

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: No data available

### **Respiratory or skin sensitisation**

#### **Product:**

Remarks: Based on available data, the classification criteria are not met.

### **Germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro Remarks: No data available

Genotoxicity in vivo Remarks: No data available

### **Carcinogenicity**

#### **Product:**

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Carcinogenicity - Assessment

Suspected of causing cancer.

### Reproductive toxicity

#### Product:

Effects on fertility

Remarks: Based on available data, the classification criteria are not met.

### STOT - single exposure

#### Product:

Remarks: May cause drowsiness or dizziness.

### STOT - repeated exposure

#### Product:

Remarks: May cause damage to organs through prolonged or repeated exposure.

No data available

### Aspiration toxicity

#### Product:

May be fatal if swallowed and enters airways.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish

:

Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates

:

Remarks: No data available

Toxicity to algae

:

Remarks: No data available

Toxicity to bacteria

:

Remarks: No data available

### Persistence and degradability

#### Product:

Biodegradability

:

Remarks: No data available

### Bioaccumulative potential

No data available

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### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Offer surplus and non-recyclable solutions to a licensed disposal company.  
Waste must be classified and labelled prior to recycling or disposal.  
Send to a licensed waste management company.  
Dispose of as hazardous waste in compliance with local and national regulations.  
Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1202  
Proper shipping name : Diesel fuel  
Class : 3  
Packing group : III  
Labels : Class 3 - Flammable Liquid  
Packing instruction (cargo aircraft) : 366

#### IMDG-Code

UN number : UN 1202  
Proper shipping name : DIESEL FUEL  
  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

### National Regulations

#### TDG

UN number : UN 1202  
Proper shipping name : DIESEL FUEL  
  
Class : 3  
Packing group : III

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|                  |   |     |
|------------------|---|-----|
| Labels           | : | 3   |
| ERG Code         | : | 128 |
| Marine pollutant | : | no  |

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### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

**The components of this product are reported in the following inventories:**

|            |                                                       |
|------------|-------------------------------------------------------|
| <b>DSL</b> | On the inventory, or in compliance with the inventory |
|------------|-------------------------------------------------------|

---

### SECTION 16. OTHER INFORMATION

|                 |   |                                                                                                                                                                                                   |
|-----------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For Copy of SDS | : | Internet: <a href="http://www.petro-canada.ca/msds">www.petro-canada.ca/msds</a><br>Canada-wide: telephone: 1-800-668-0220; fax: 1-800-837-1228<br>For Product Safety Information: 1 905-804-4752 |
|-----------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|             |   |                                 |
|-------------|---|---------------------------------|
| Prepared by | : | Product Safety: +1 905-804-4752 |
|-------------|---|---------------------------------|

|               |   |            |
|---------------|---|------------|
| Revision Date | : | 2018/12/19 |
|---------------|---|------------|

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.