## DIESEL FUEL



## 000003000395

Version 1.0 Revision Date 2015/05/14 Print Date 2015/05/14

#### **SECTION 1. PRODUCT AND COMPANY 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

Product code : 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;

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.
Hazard Summary	Combustible liquid. May cause cancer. Irritating to eyes and skin.

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**Potential Health Effects** 

Primary Routes of Entry : Eye contact

Ingestion Inhalation Skin contact Skin Absorption

Target Organs : Skin

Eyes

Respiratory Tract

Inhalation : May cause respiratory tract irritation.

Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of

consciousness.

Skin : Causes skin irritation.

Eyes : Causes eye irritation.

Ingestion : Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhoea.

Aspiration hazard if swallowed - can enter lungs and cause

damage.

**Aggravated Medical** 

Condition

: None known.

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

## **Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
kerosine (petroleum), hydrodesulfurized	64742-81-0	70 - 100 %
kerosine (petroleum)	8008-20-6	
fuels, diesel	68334-30-5	
fuel oil no. 2	68476-30-2	
Alkanes, C10-20-branched and linear	928771-01-1	0 - 25 %
Soybean oil, Methyl ester	67784-80-9	0 - 5 %
Rape oil, Methyl ester	73891-99-3	

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Fatty acids, tallow, Methyl esters 61788-61-2

#### **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

: First aider needs to protect himself.

### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Dry chemical

Carbon dioxide (CO2)

Water fog. Foam

Unsuitable extinguishing

media

: Do NOT use water jet.

Specific hazards during

firefighting

: Cool closed containers exposed to fire with water spray.

Hazardous combustion

products

: Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), sulphur compounds (H2S), 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

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for firefighters necessary.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation. Evacuate personnel to safe areas. 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.

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.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
kerosine (petroleum),	64742-81-0	TWA	200 mg/m3	ACGIH

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hydrodesulfurized			(As total hydrocarbon vapour)	
		TWA	200 mg/m3 (As total hydrocarbon vapour)	ACGIH
		TWA	200 mg/m3 (As total hydrocarbon vapour)	ACGIH
kerosine (petroleum)	8008-20-6	TWA	200 mg/m3 (As total hydrocarbon vapour)	CA BC OEL

**Engineering measures** : 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 : 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.

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

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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.

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 Pour point : No data available

Boiling point/boiling range : 150 - 371 °C (302 - 700 °F)

Flash point : > 40 °C (104 °F)

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)

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)



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Explosive properties : Do not pressurise, cut, weld, braze, solder, drill, grind or

expose containers to heat or sources of ignition. Runoff to

sewer may create fire or explosion hazard.

#### **SECTION 10. STABILITY AND REACTIVITY**

Possibility of hazardous

reactions

: Hazardous polymerisation does not occur.

Stable under normal conditions.

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, H2S, smoke and irritating

vapours when heated to decomposition.

# **SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : Eye contact

exposure

Ingestion
Inhalation
Skin contact

Skin contact Skin Absorption

## **Acute toxicity**

Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

**Components:** 

kerosine (petroleum), hydrodesulfurized:

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):

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

Acute inhalation toxicity : LC50 Rat: > 5 mg/l

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Exposure time: 4 h

Test atmosphere: dust/mist

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

fuels, diesel:

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

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

fuel oil no. 2:

Acute oral toxicity : LD50 Rat: 12,000 mg/kg,

Acute inhalation toxicity : LC50 Rat: 4.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

#### Skin corrosion/irritation

**Product:** 

Remarks: No data available

## Serious eye damage/eye irritation

#### **Product:**

Remarks: No data available

## Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

## Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

**Aspiration toxicity** 

No data available

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#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

**Product:** 

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other : Remarks: No data available

aquatic invertebrates

Toxicity to algae : Remarks: No data available

Toxicity to bacteria : Remarks: No data available

Persistence and degradability

**Product:** 

: Remarks: No data available Biodegradability

Bioaccumulative potential

No data available

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.

Contaminated packaging : Do not re-use empty containers.

#### **SECTION 14. TRANSPORT INFORMATION**

## **International Regulation**

IATA-DGR

UN/ID No. : 1202

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Proper shipping name : Diesel fuel

Class : 3
Packing group : III
Labels : 3
Packing instruction (cargo : 366

aircraft)

**IMDG-Code** 

UN number : 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

Not applicable for product as supplied.

**TDG** 

UN number : 1202

Proper shipping name : DIESEL FUEL

Class : 3
Packing group : III
Labels : 3
ERG Code : 128
Marine pollutant : no

## Special precautions for user

Not applicable

#### **SECTION 15. REGULATORY INFORMATION**

WHMIS Classification : B3: Combustible Liquid

D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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

On the inventory, or in compliance with the inventory

TSCA All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory

exemption.

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

#### **SECTION 16. OTHER INFORMATION**

For Copy of (M)SDS : Internet: www.petro-canada.ca/msds

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

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For Product Safety Information: 1 905-804-4752

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

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