# **DIESEL FUEL**



## 000003000395

Version 3.1 Revision Date 2017/04/20 Print Date 2017/04/20

#### **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 : 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 num-

ber

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**

Flammable liquids : Category 3

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Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Carcinogenicity : Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Central nervous system)

Specific target organ toxicity

- 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. IF exposed or concerned: Get medical advice/ attention.

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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 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, vomit-

ing and diarrhoea.

Aspiration hazard if swallowed - can enter lungs and cause

damage.

Aggravated Medical Condi-

tion

: None known.

Other hazards

None known.

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 Confirmed animal carcinogen with unknown relevance to hu-

mans

Fuel Oil No. 1 8008-20-6

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

Substance / Mixture : Mixture

## Hazardous components

Chemical name	CAS-No.	Concentration	
fuels, diesel	68334-30-5	70 - 100 %	
fuel oil no. 2	68476-30-2		
kerosine (petroleum)	8008-20-6		
kerosine (petroleum), hydrodesulfurized	64742-81-0		
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		
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 physi-

cian 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

: None known.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

It may be dangerous to the person providing aid to give

mouth-to-mouth resuscitation.

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#### **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 fire-

fighting

: Cool closed containers exposed to fire with water spray.

Hazardous combustion prod-

ucts

: 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

for firefighters

: Wear self-contained breathing apparatus for firefighting if nec-

essary.

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

Personal precautions, protective equipment and emer-

gency procedures

Personal precautions, protec: 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 ap-

plication 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 elec-

tricity.

Avoid contact with skin, eyes and clothing.

Do not ingest.

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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 sun-

light.

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

#### Components with workplace control parameters

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

**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 un-

der 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 ade-

quate protection.

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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 nec-

essary.

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 concen-

tration and amount of dangerous substances, and to the spe-

cific work-place.

Protective measures : Wash contaminated clothing before re-use.

Hygiene measures : Remove and wash contaminated clothing and gloves, includ-

ing 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 :  $> 40 \, ^{\circ}\text{C} \, (104 \, ^{\circ}\text{F})$ 

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. Va-

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pours 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)

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

pose containers to heat or sources of ignition. Runoff to sewer

may create fire or explosion hazard.

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

Possibility of hazardous reac-

tions

: 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 va-

pours when heated to decomposition.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Eye contact Ingestion Inhalation Skin contact Skin Absorption

## **Acute toxicity**

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**Product:** 

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: No data available

**Components:** 

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

kerosine (petroleum):

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,

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,

Skin corrosion/irritation

**Product:** 

Remarks: No data available

Serious eye damage/eye irritation

**Product:** 

Remarks: No data available

Respiratory or skin sensitisation

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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

## **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

## **SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues : The product should not be allowed to enter drains, water

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courses or the soil.

Offer surplus and non-recyclable solutions to a licensed dis-

posal 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 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
Labels : 3
ERG Code : 128
Marine pollutant : no

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

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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:

**DSL** 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 SDS : Internet: 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

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