

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name Diesel/Bio-diesel/Distillate

Revision date 06-23-2011

 Version #
 03

 CAS #
 Mixture

 Product code
 2181

Product use Fuel. Refinery feedstock.

Synonym(s) Premium Diesel, EP 3000, Railroad Diesel, Seasonal Diesel, Premium Mine Diesel, Mine Diesel,

Summer Diesel, Winter Diesel, Dyed (Purple) Diesel, Export Diesel, Electric Generating Diesel,

ARDS Light Distillate, ARDS Heavy Distillate/Diesel, Crude Straight run Diesel, MDU

Unifinate/Diesel, CAT light Cycle oil, DHU Low Pour Distillate, DHU High Pour Distillate, #2 Fuel

Oil.

Manufacturer/Supplier Consumers' Co-operative Refineries Ltd.

P.O. Box 260

550E, 9th Avenue North Regina, SK S4P 3A1 CA

Telephone Number: (306) 721-5353 Contact Person: Safety Advisor

Emergency 24 Hour Emergency Telephone (613) 996-6666 - Canutec

Supplier Federated Co-operatives Ltd.

P.O. Box 1050

401 - 22nd Street East

Saskatoon S7K 3M9 CA

Emergency telephone (613) 996-6666 **Telephone Number:** (306) 244-3447

2. Hazards Identification

Physical state Liquid.

Emergency overview WARNING! Combustible liquid and vapor. Aspiration hazard: Harmful if swallowed - may enter

lungs if swallowed or vomited. High vapor concentrations may cause drowsiness and irritation of the eyes or respiratory tract. Prolonged or repeated skin contact may cause drying, cracking, or irritation. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

OSHA regulatory status

This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Routes of exposure Ingestion. Eye contact. Inhalation. Skin contact.

Eyes May cause eye irritation. Contact may cause irritation with redness, tearing, pain, and/or blurred

vision.

Skin Prolonged or repeated contact may dry skin and cause irritation.

Inhalation Vapors may cause headache, fatigue, dizziness and nausea. May cause central nervous system

effects.

Ingestion Ingestion may result in vomiting; aspiration (breathing) of vomitus into lungs must be avoided as

even small quantities may result in aspiration pneumonitis.

Potential environmental effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS#	Percent	
Fuels, diesel	68334-30-5	95 - 100	
Canola Oil - Fatty Acid Methyl Ester	129828-16-6	0 - 5	

Diesel/Bio-diesel/Distillate CPH MSDS NA

Rapeseed Oil - Fatty Acid Methyl Ester	73891-99-3	0 - 5
Soy Methyl Esters from Vegetable Oil	67784-80-9	0 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses. Get

medical attention immediately.

Skin contact Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation

develops and persists. Wash contaminated clothing before reuse. Destroy or thoroughly clean

contaminated shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention immediately!

Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water to people not

unconscious. DO NOT induce vomiting because of danger of aspirating liquid into lungs. Call a physician or poison control center. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth to an unconscious person.

Notes to physician
General advice

Treat symptomatically. The effects might be delayed. Get medical attention if any discomfort develops.

5. Fire Fighting Measures

Flammable properties The product is combustible, and heating may generate vapors which may form explosive vapor/air

mixtures. Material will float and can be re-ignited on surface of water.

Extinguishing media

Suitable extinguishing

media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising

from the chemical

Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an

ember.

Protective equipment and

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

precautions for firefighters

Fire fighting equipment/instructions

Hazardous combustion

products

Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions Stay upwind. Ventilate closed spaces before entering them. Wear suitable protective clothing,

gloves and eye/face protection. For personal protection, see section 8 of the MSDS.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by

containment or oil barriers). Do not contaminate water. Contact local authorities in case of spillage

to drain/aquatic environment.

Methods for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the

flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent

entry into waterways, sewer, basements or confined areas.

Methods for cleaning upStop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

Small Spills: Absorb spillage with non-combustible, absorbent material.

Large Spills: Remove with vacuum trucks or pump to storage/salvage vessels. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Wash area with soap and water. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labeled container.

Diesel/Bio-diesel/Distillate CPH MSDS NA

7. Handling and Storage

Handling Access to work area should be restricted to people handling the product only. Should be handled

> in closed systems, if possible. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors. Wear appropriate personal protective equipment. Ground container and transfer equipment to eliminate static electric sparks. The product is a combustible liquid. Take the necessary precautionary measures. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Immediately change contaminated clothes. Do not eat, drink or smoke when using the product. Be aware of potential for surfaces to become slippery. Observe

good industrial hygiene practices.

Storage Keep away from heat, sparks and open flame. Keep in a cool, well-ventilated place. Keep away

from food, drink and animal feeding stuffs. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Fuels, diesel (68334-30-5)	TWA	100 mg/m3	Inhalable fraction and

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value
Fuels, diesel (68334-30-5)	TWA	100 mg/m3

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	туре	value	Form
Fuels, diesel (68334-30-5)	TWA	100 mg/m3	Vapor and aerosol.

Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	Form
Fuels, diesel (68334-30-5)	TWA	100 mg/m3	Vapor and aerosol.

Provide adequate ventilation and minimize the risk of inhalation of vapors and oil mist. Provide easy access to water supply and eye wash facilities. Use explosion-proof equipment.

Personal protective equipment

Engineering controls

Eye / face protection Wear approved safety goggles.

Skin protection Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure.

Contact glove manufacturer for specific information.

Respiratory protection Do not breathe mist or vapor. In case of inadequate ventilation or risk of inhalation of vapors, use

suitable respiratory equipment. Wear NIOSH approved respirator appropriate for airborne

exposure at the point of use.

General hygiene Do not eat, drink or smoke when using the product. Wash hands after handling. Launder

considerations contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety

practices.

9. Physical & Chemical Properties

Not available. **Appearance**

Color Straw.

Odor Hydrocarbon-like. **Odor threshold** Not available.

Physical state Liquid.

Not available. Form Not available. pН Not available. **Melting point** Freezing point Not available.

302 - 734 °F (150 - 390 °C) **Boiling point** > 104 °F (> 40 °C) Closed Cup Flash point

Diesel/Bio-diesel/Distillate CPH MSDS NA

Not available. **Evaporation rate**

Flammability limits in air, upper, 7.6 %

% by volume

Flammability limits in air, lower, 0.6 %

% by volume

Vapor pressure < 2 psia Vapor density Not available. < 1 @ 40 °C Specific gravity Insoluble Solubility (water) Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperature Not available. Not available. **Decomposition temperature**

1.7 - 4.1 cSt @ 40 °C Viscosity

10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal storage and handling conditions.

Conditions to avoid Heat, sparks, flames, elevated temperatures. Contact with incompatible materials. Do not

pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks,

static electricity, or other sources of ignition; they may explode and cause injury or death.

Incompatible materials Strong acids. Strong oxidizing agents.

Hazardous decomposition

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapors.

Possibility of hazardous

reactions

Polymerization will not occur. No dangerous reaction known under conditions of normal use.

11. Toxicological Information

Acute effects Swallowing or vomiting of the liquid may result in aspiration into the lungs. Breathing of high

concentrations may cause dizziness, light-headedness, headache, nausea and loss of

coordination. Continued inhalation may result in unconsciousness.

Prolonged or repeated contact may dry skin and cause irritation. Local effects

US ACGIH Threshold Limit Values: Skin designation

Fuels, diesel (CAS 68334-30-5) Can be absorbed through the skin.

Sensitization May cause eczema-like skin disorders (dermatitis).

Chronic effects Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema/chapping

and oil acne.

IARC, NTP and OSHA: Not listed. Carcinogenicity

ACGIH Carcinogens

Fuels, diesel (CAS 68334-30-5) A3 Confirmed animal carcinogen with unknown relevance to

humans

Epidemiology Pre-existing skin conditions including dermatitis might be aggravated by exposure to this product.

Knowledge about mutagenicity is incomplete. Mutagenicity

Knowledge about reproductive effects is incomplete. Reproductive effects

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious **Further information**

chemical pneumonia.

12. Ecological Information

Ecotoxicity Oil spills are generally hazardous to the environment.

Environmental effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

Persistence and degradability

The degradability of the product has not been stated.

Bioaccumulation / No data available on bioaccumulation.

Accumulation

Diesel/Bio-diesel/Distillate CPH MSDS NA Partition coefficient (n-octanol/water)

Not available.

Mobility in environmental

media

The product is insoluble in water. It will spread on the water surface while some of the components will eventually sediment in water systems. The volatile components of the product will

spread in the atmosphere.

13. Disposal Considerations

Disposal instructions

Disposal of this product, solutions, or containers must at all times comply with the requirements of the environmental protection and waste disposal legislation and any regional local authority requirements.

Waste from residues / unused

products

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a

safe manner (see: Disposal instructions).

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1202 Proper shipping name Diesel Fuel Combustible Liquid **Hazard class**

Packing group

Combustible Liquid Labels required

Additional information:

Special provisions 144, B1, IB3, T2, TP1

150 Packaging exceptions 203 Packaging non bulk 242 Packaging bulk 128 **ERG** number

IATA

Basic shipping requirements:

UN number 1202 Proper shipping name Diesel Fuel

Hazard class 3 **Packing group** Ш Additional information:

ERG code 3L

IMDG

Basic shipping requirements:

UN number 1202 Diesel Fuel Proper shipping name

Hazard class 3 **Packing group** Ш EmS No. F-E, S-E

TDG

Basic shipping requirements:

Proper shipping name Diesel Fuel

Hazard class UN number UN1202 Packing group Ш

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Diesel/Bio-diesel/Distillate CPH MSDS NA

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

No

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CRF 355, Appendix A)

Section 311/312 (40 CFR

370)

Drug Enforcement

Administration (DEA) (21 CFR Canadian regulations

Not controlled

1308.11-15)

contains all the information required by the CPR.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

WHMIS status Controlled

WHMIS classification B3 - Flammable/Combustible D2B - Other Toxic Effects-TOXIC

WHMIS labeling





Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

State regulations

US - Pennsylvania RTK - Hazardous Substances: Listed substance

Fuels, diesel (CAS 68334-30-5)

16. Other Information

United States & Puerto Rico

HMIS® ratings Health: 2

> Flammability: 2 Physical hazard: 0

NFPA ratings Health: 2

> Flammability: 2 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

Issue date 06-23-2011

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Yes