

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Product identifier Diesel/Bio-diesel/Distillate

Version # 01

Issue date 30-April-2015

Revision date Supersedes date -

CAS # Mixture
Product code 2181
Product use Fuel.

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

Diesel, Dyed (Purple) Diesel, Export Diesel, Electric Generating Diesel, #2 Fuel Oil, No.#1 Diesel,

Type A Diesel, Type #1 Fuel Oil, Type B Diesel

Manufacturer information

Manufacturer Consumers' Co-operative Refineries Limited

**Address** P.O. Box 260; 9th Avenue North

Regina, SK S4P 3A1 Canada

Telephone(306) 721-5353 -or- (306) 719-4353SupplierFederated Co-operatives LimitedAddressP.O. Box 1050, 401 - 22nd Street East

Saskatoon SK S7K 3M9 Canada

Jaskatoon Sk S/K Sivis

**Telephone** (306) 244-3447

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

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

## 2. Hazards Identification

Emergency overview WARNING!

Combustible liquid and vapor. Harmful if inhaled. Prolonged or repeated skin contact may cause drying, cracking, or irritation. Suspected of causing cancer. May cause damage to organs (blood, liver, thymus) through prolonged or repeated exposure. Aspiration hazard: Harmful if swallowed may enter lungs if swallowed or vomited. Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Potential health effects

Routes of exposure Inhalation. Skin contact. Ingestion.

**Eyes** Direct contact with eyes may cause temporary irritation.

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

**Inhalation** Harmful if inhaled. Vapors may cause headache, fatigue, dizziness and nausea.

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	_

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

**Composition comments** 

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First Aid Measures

First aid procedures

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

medical attention immediately!

Remove contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation Skin contact

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

contaminated shoes.

Flush thoroughly with water. If irritation occurs, get medical assistance. Eye contact

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

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 Treat symptomatically. The effects might be delayed.

**General advice** If you feel unwell, seek medical advice (show the label where possible).

# 5. Fire Fighting Measures

Flammable properties Combustible liquid and vapor. Material will float and may ignite on surface of water. Containers

may explode when heated. Vapors are heavier than air and may travel along the ground to some

distant source of ignition and flash back.

**Extinguishing media** 

Suitable extinguishing

media

Carbon dioxide (CO2). Foam. Dry chemical. 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

Protective equipment for firefighters

During fire, gases hazardous to health may be formed.

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in

case of fire.

Fire fighting

equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Move container from fire area if it can be done without risk. Cool containers exposed to heat with

water spray and remove container, if no risk is involved.

**Explosion data** 

Sensitivity to static

discharge

Not sensitive.

Sensitivity to mechanical

impact

Not sensitive.

**Hazardous combustion** 

products

Carbon oxides.

General fire hazards Combustible liquid and vapor.

# 6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. In case of spills, beware of slippery floors and surfaces. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors and contact with skin and eyes. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the

MSDS.

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### **Environmental precautions**

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not contaminate water.

### **Methods for containment**

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 up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Extinguish all flames in the vicinity. Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Should not be released into the environment.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the MSDS.

### Other information

Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

### Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame or sources of ignition. Protect material from direct sunlight. Keep away from heat, spark, open flames and other sources of ignition. When using do not smoke. Explosion-proof general and local exhaust ventilation should be used. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Use only with adequate ventilation. Avoid contact with skin and clothing. Avoid inhalation of vapors. Do not taste or swallow. Wash thoroughly after handling. Observe good industrial hygiene practices.

### Storage

Keep away from heat, spark, open flames and other sources of ignition. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep container tightly closed and in a well-ventilated place. Store in closed original container at room temperature. Keep in an area equipped with sprinklers. Store away from incompatible materials (See Section 10).

# 8. Exposure Controls / Personal Protection

Occupational exposure limits

### **US. ACGIH Threshold Limit Values**

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

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

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

# 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 (CAS 68334-30-5)	TWA	100 mg/m3	Vapor and aerosol.	
00334-30-3)				

## Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

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

### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

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

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# **Exposure guidelines**

Canada - British Columbia OELs: Skin designation

Fuels, diesel (CAS 68334-30-5)

Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Fuels, diesel (CAS 68334-30-5)

Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Fuels, diesel (CAS 68334-30-5)

Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Fuels, diesel (CAS 68334-30-5)

Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Fuels, diesel (CAS 68334-30-5)

Can be absorbed through the skin.

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

**Eye / face protection** Use approved safety goggles or face shield.

**Skin protection** Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator

use.

# 9. Physical & Chemical Properties

**Appearance** 

Physical stateLiquid.FormLiquid.ColorStraw.

Odor Hydrocarbon-like.
Odor threshold Not available.
pH Not available.
Vapor pressure < 2 psia

Vapor density Not available.

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**Boiling point** 300.2 - 752 °F (149 - 400 °C)

Melting point/Freezing pointNot applicable.Solubility (water)Insoluble in water.Specific gravity0.84 - 0.89 @ 15.6 °C

Flash point > 104.0 °F (> 40.0 °C) Pensky-Martens Closed Cup

Flammability limits in air,

upper, % by volume

7.6 %

Flammability limits in air,

lower, % by volume

0.6 %

Auto-ignition temperatureNot available.Evaporation rateNot available.Viscosity1 - 10 cSt @ 40 °CPartition coefficientNot available.

(n-octanol/water)

# 10. Chemical Stability & Reactivity Information

**Reactivity**The product is non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Stable under normal storage and handling conditions.

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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

Hazardous decomposition

products

Strong acids. Strong oxidizing agents.

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

Possibility of hazardous

reactions

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. Harmful if inhaled.

> Breathing of high concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness. Causes skin irritation.

Sensitization Not a skin or respiratory sensitizer.

Prolonged or repeated contact with skin may cause redness, itching, irritation and **Chronic effects** 

eczema/chapping. Prolonged inhalation may be harmful. May cause damage to organs (blood,

liver, thymus) through prolonged or repeated exposure.

Carcinogenicity Suspected of causing cancer.

**ACGIH Carcinogens** 

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

humans.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Direct contact with eyes may cause temporary irritation.

Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Reproductive effects

This product is not expected to cause reproductive or developmental effects.

**Teratogenicity** 

This product is not expected to cause teratogenic effects.

Symptoms and target organs

Harmful if inhaled. Causes skin irritation. May cause redness and pain. Prolonged contact may cause dryness of the skin. Direct contact with eyes may cause temporary irritation. May cause damage to organs (blood, liver, thymus) through prolonged or repeated exposure. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical

pneumonia.

None known. Synergistic materials

# 12. Ecological Information

Ecotoxicological data No ecotoxicity data noted for the ingredient(s).

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Oil **Ecotoxicity** 

spills are generally hazardous to the environment.

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

potential.

Aquatic toxicity

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

Persistence and degradability

Bioaccumulation / accumulation

The degradability of the product has not been stated. No data available on bioaccumulation.

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** Must be incinerated in a suitable incineration plant holding a permit delivered by the competent

authorities. Do not allow this material to drain into sewers/water supplies. Do not contaminate

ponds, waterways or ditches with chemical or used container.

Waste from residues / unused

products

Dispose of waste and residues in accordance with local authority requirements.

Since emptied containers retain product residue, follow label warnings even after container is Contaminated packaging

emptied.

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# 14. Transport Information

TDG

UN1202 **UN** number **UN proper shipping name** Diesel Fuel

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group Yes **Environmental hazards** 

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IATA

**UN number** UN1202 Diesel Fuel UN proper shipping name

Transport hazard class(es)

Class 3 Subsidiary risk Label(s) 3 Ш Packing group **Environmental hazards** Yes **ERG Code** 3L

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

**IMDG** 

UN1202 **UN number** Diesel Fuel UN proper shipping name

Transport hazard class(es)

Class 3 Subsidiary risk 3 Label(s) Packing group Ш **Environmental hazards** 

Marine pollutant Yes F-E, S-E

**EmS** Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

Inventory name

# 15. Regulatory Information

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

contains all the information required by the CPR.

**WHMIS** status Controlled

WHMIS classification B3 - Combustible Liquids

D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

### WHMIS labeling





## International Inventories

Country(s) or region

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

On inventory (yes/no)\*

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Diesel/Bio-diesel/Distillate MSDS Canada Country(s) or region Inventory name On inventory (yes/no)\*

New Zealand New Zealand Inventory No

Philippines Philippine Inventory of Chemicals and Chemical Substances No

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other Information

Further information The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

NFPA ratings Health: 2

Flammability: 2 Instability: 0

**Disclaimer**To the best of our knowledge, the information contained herein is accurate. However, neither the

above named supplier nor any of its subsidiaries assumes any liability whatsoever for

completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these

are the only hazards that exist.

Prepared by Not available.

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