






ULTRA LOW SULPHUR DIESEL

WHMIS (Pictograms)	WHMIS (Classification)	Protective Clothing
 	B3 - Combustible Liquid D2A - Materials Causing Other Toxic Effects, Very Toxic Material D2B - Materials Causing Other Toxic Effects, Toxic Material	  

NFPA Hazard Class			HMIS Hazard Class	
Health	1	Slightly Hazardous	Health	1
Flammability	2	Flashpoint below 200 F	Flammability	2
Reactivity	0	Stable	Physical Hazard	0
Specific hazards			Personal Protective Equipment	

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ULTRA LOW SULPHUR DIESEL
Product type : Suncor Product
MSDS Number : V00000005537
CAS-No. : 68476-34-6
Synonyms : SUNCOR OSX, Diesel Fuel #2 Clear, Diesel Fuel #2 Coloured
Intended Use : Fuel
Manufacturer : Suncor Energy Inc.
P.O. Box 4001
Fort McMurray, Alberta Canada
T9H 3E3

EMERGENCY CONTACT INFORMATION

Suncor Energy Inc., Oil Sands (780) 790-7001 (24-hr)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
DISTILLATES (PETROLEUM), HYDROTREATED MIDDLE	64742-46-7	99 - 100 %
2-Ethylhexyl nitrate	27247-96-7	0 - 500 PPM
Lubricity Improver		0 - 200 PPM
Lubricity De-Icer		0 - 300 PPM
Conductivity Improver		0 - 20 PPM
Diesel Fuel Dye		0 - 37 PPM
Sulphur	7704-34-9	0 - 15 PPM

SECTION 3. HAZARDS IDENTIFICATION



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Emergency Overview

Hazard Summary : Flammable. Overexposure to vapors or exhaust fumes may cause headache, nausea, eye, nose, throat, respiratory irritation. If diesel is aspirated into the lungs, severe lung damage or death may result.

Potential Health Effects

Eyes : May cause eye irritation.

Skin : Frequent or prolonged contact may irritate the skin and cause inflammation (dermatitis).
Can be absorbed through the skin in toxic amounts resulting in vomiting, diarrhea, pneumonia and kidney failure.

Inhalation : May cause irritation of the respiratory tract.
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
May cause burning sensation in the chest.

Ingestion : If diesel is aspirated into the lungs, severe lung damage or death may result.

Chronic Exposure : May cause inflammation of the skin, vesicles may appear which weep and form crusts.

Primary Routes of Entry : Inhalation
Skin Absorption
Eye contact
Ingestion

Target Organs : Respiratory system
Central nervous system
Skin

Carcinogenic Effects : No data is available on the product itself.

SECTION 4. FIRST AID MEASURES

General advice : Consult physician and/or Poison Control Centre for all exposures except minor instances of inhalation or skin contact.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.

Skin contact : Take off all contaminated clothing immediately.
Wash off with soap and water.
For large exposures use a deluge shower.



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- Inhalation : Move to fresh air.
Artificial respiration and/or oxygen may be necessary.
Seek medical advice.
- Ingestion : Do NOT induce vomiting.
If vomiting occurs have victim lean forward to reduce the risk
of aspiration.
Seek medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

- Flash point : 50 - 65 °C (122 - 149 °F)
Method: ASTM D 93
- Autoignition temperature : 231 °C (448 °F)
Method: ASTM E659
- Lower explosion limit : 0.42 %(V)
Method: ASTM E681
- Flammability in Presence of : This material is flammable and can be ignited by heat, sparks, flames or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment and electronic devices such as cell phones, computers, calculators and pagers which have not been certified as intrinsically safe).
- Explosibility in Presence of : Explosive reaction may occur on heating or burning.
Containers may explode or rupture if exposed to heat
- Products of Combustion : carbon monoxide, carbon dioxide, nitrogen oxides, other toxic gases

Fire fighting information

- Suitable extinguishing media : Carbon dioxide (CO₂), Dry chemical
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.
- Further information : Do not extinguish with water unless flow can be stopped
Do NOT use water jet.
The use of water may spread fire.
Do not cut, drill or weld empty containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear proper protective equipment as specified in the protective equipment section.
- Environmental precautions : Do not flush into surface water or sanitary sewer system.



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Comply with all applicable Federal and Provincial regulations or guidelines.

Methods for cleaning up : Remove all sources of ignition.
Ensure adequate ventilation.
Turn off source, if possible.
Absorb spills on inert material such as perlite, vermiculite, sand or dirt.
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Handling Precautions

Handling : Keep away from open flames, hot surfaces and sources of ignition.
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
When transferring from one container to another apply earthing measures and use conductive hose material.

Storage

Advice on mixed storage : Store in a cool, well ventilated area away from incompatible materials.
Storage tank should be vented to atmosphere.
To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded.
A containment dike should be built around tank.
Small quantities should be stored in an approved safety solvent container.
Store container in a fire-resistant grounded cabinet vented to the atmosphere.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures : Adequate ventilation to ensure that Occupational Exposure Limits are not exceeded.

Eye protection : Chemical resistant goggles must be worn.
Wear face-shield if splashing hazard is likely.

Hand protection : Wear suitable gloves.
The following materials are acceptable:
Nitrile rubber
Neoprene

Skin and body protection : Wear as appropriate:
Long sleeved clothing
A neoprene or nitrile rain suit may be needed in certain

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situations.
(e.g., vessel cleaning).

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Half-mask air purifying respirator with organic vapor cartridges is acceptable to 10 times the exposure limit.
Full-face air purifying respirator with organic vapor cartridges is acceptable to 50 times the exposure limit not to exceed the cartridge limit of 1000 ppm.
Use an air-supplied or self-contained breathing apparatus in confined spaces or in emergency or high-exposure situations.

Hygiene measures : Wash hands and face before breaks and immediately after handling the product.

Legislated occupational threshold limits

Sulphur 7704-34-9 CAD AB OEL TWA 10 mg/m³

Note: State/Provincial, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local authorities for further information.

Other information

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour : Amber

Odour : hydrocarbon-like

Odour Threshold : 1 ppm

Physical state : liquid

pH : 5.7

Boiling point/range : 115 - 395 °C (239 - 743 °F)
Method: ASTM D-2887

Vapour pressure : < 0.1 kPa
Method: ASTM D 323A

Density : 840 - 860 kg/m³

Specific gravity : 0.84 - 0.86

Water solubility : insoluble

Partition coefficient : POW: <1
(n-octanol/water)



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SECTION 10. STABILITY AND REACTIVITY

- Materials to avoid : Oxidizing agents
- Hazardous decomposition products : carbon monoxide
carbon dioxide
nitrogen oxides (NO_x)
- Hazardous reactions : Hazardous polymerization does not occur.
Note: Stable under normal conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : LD 50 Rat
Dose: > 5,000 mg/kg
- Acute dermal toxicity : LD 50 Rabbit
Dose: > 2,000 mg/kg
- Acute inhalation toxicity : LC 50 Rat
Exposure time: 4 h
Dose: 1.72 - 1.82 mg/l
- Skin irritation : Rabbit
Result: Moderate skin irritant
- Eye irritation : Rabbit
Result: slight irritation
- Sensitization : Remarks: Did not cause sensitization on laboratory animals.
- Further information : Information given is based on data obtained from similar substances.
Skin painting tests indicate that materials of similar composition have produced skin cancer in experimental animals.

SECTION 12. ECOLOGICAL INFORMATION

- Additional ecological information : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

- Advice on disposal : Comply with all applicable Federal and Provincial regulations or guidelines.

SECTION 14. TRANSPORT INFORMATION

- DOT Proper shipping name : DIESEL FUEL



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TSCA Status : Listed on TSCA
DISTILLATES (PETROLEUM), 64742-46-7
HYDROTREATED MIDDLE
2-Ethylhexyl nitrate 27247-96-7
Sulphur 7704-34-9

DSL Status : All components of this product are on the Canadian DSL list.

SECTION 16. OTHER INFORMATION

Date Validated : 02/20/2007

References : Suncor Laboratory analytical results, 2005
Maxxam Analytics Inc. Laboratory Analysis 2006
Suncor Inc., MSDS For diesel, 2001.
Kidde Fenwal Combustion Research Center Laboratory Analysis 2006
The Petroleum HPV Testing Group, Test Plan Gas Oils Category, November 3, 2003
Kidde Fenwal Combustion Research Centre Laboratory Analysis 2007

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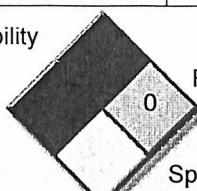
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	UN-No.	:	1202
	Class	:	3
	Packing group	:	III
TDG	Proper shipping name	:	DIESEL FUEL
	UN-No.	:	1202
	Class	:	3
	Packing group	:	III
IATA	UN Number	:	1202
	Description of the goods	:	DIESEL FUEL
	Class	:	3
	Packaging group	:	III
	ADR/RID-Labels	:	3
	Packing instruction (cargo aircraft)	:	310
	Packing instruction (passenger aircraft)	:	309
	Packing instruction (passenger aircraft)	:	Y309
IMDG	Substance No.	:	UN 1202
	Description of the goods	:	DIESEL FUEL
	Class	:	3
	Packaging group	:	III
	ADR/RID-Labels	:	3
	EmS Number	:	F-E

SECTION 15. REGULATORY INFORMATION

HMIS Hazard Class

Health	1
Flammability	2
Physical Hazard	0
Personal Protective Equipment	
NFPA Hazard Rating	<div style="display: flex; align-items: center; justify-content: center;"> <div style="text-align: center;"> <p>Flammability</p> <p>Health</p> </div>  <div style="text-align: center;"> <p>Reactivity</p> <p>Special</p> </div> </div>

WHMIS Classification : B3 - Combustible Liquid, D2A - Materials Causing Other Toxic Effects, Very Toxic Material, D2B - Materials Causing Other Toxic Effects, Toxic Material

WHMIS (Pictograms)

