




# SAFETY DATA SHEET

## 1. Product and Company Identification

Product identifier	Ultra Low Sulphur Diesel
Other means of identification	Not available
Recommended use	Fuel
Recommended restrictions	None known.
Manufacturer	Irving Oil Refining G.P. Box 1260 Saint John, NB E2L 4H6 CA Phone: (506) 202-2000 Refinery: (506) 202-3000 Emergency Phone: 1-800-424-9300 (CHEMTREC)

## 2. Hazards Identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		

Signal word Danger

Hazard statement  
Flammable liquid and vapor.  
Causes skin irritation.  
May be fatal if swallowed and enters airways.  
Harmful if inhaled.  
May cause damage to organs through prolonged or repeated exposure.

### Precautionary statement

#### Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.  
Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.

#### Response

In case of fire: Use appropriate media to extinguish.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
If skin irritation occurs: Get medical advice/attention. Specific treatment (see this label).  
If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.  
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

#### Storage

Store in a well-ventilated place. Keep cool. Store locked up.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information Not applicable.

## 3. Composition/Information on Ingredients

### Mixture

Chemical name	Common name and synonyms	CAS number	%
Petroleum distillates		68476-34-6	90-100

Chemical name	Common name and synonyms	CAS number	%
Benzene		71-43-2	<0.1
Benzo[a]pyrene		50-32-8	<0.1
Naphthalene		91-20-3	<0.1
Toluene		108-88-3	<0.1

**Composition comments** \*Ultra Low Sulphur Diesel is a complex mixture of hydrocarbons. Its exact composition depends on the source of the crude oil from which it was produced and the refining methods used. Ultra Low Sulphur Diesel contains hundreds of individual organic chemicals. This section identifies only some of the well-known chemical constituents.

\*Sulphur: <8 ppm

\*Hydrogen sulphide: Nil

#### 4. First Aid Measures

<b>Inhalation</b>	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
<b>Skin contact</b>	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
<b>Eye contact</b>	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
<b>Ingestion</b>	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off all contaminated clothing immediately. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Keep out of reach of children.

#### 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Carbon dioxide. Dry chemical. Foam.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. Container may explode in heat of fire. During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus. Vapors are heavier than air and may travel along the ground to some distant source of ignition and flash back.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus. Cool containers with flooding quantities of water until well after fire is out.
<b>Fire-fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Flammable liquid and vapor.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Polycyclic aromatic hydrocarbons (PAHs). Aromatic hydrocarbons.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not expected to be sensitive to mechanical impact.
<b>Sensitivity to static discharge</b>	Vapor: Yes.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material.

**Large Spills:** Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

**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.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewers, basements or confined areas. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

### Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

## 7. Handling and Storage

### Precautions for safe handling

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist or vapor. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. When using do not eat or drink. Non-sparking equipment. Explosion-proof ventilation. Intrinsically safe electrical equipment. Have clean emergency eye wash and shower available in work area. Avoid contact with eyes, skin and clothing.

### Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers. Keep out of reach of children. Containers should be vented and equipped with a flame arrester. May be stored at ambient temperatures.

## 8. Exposure Controls/Personal Protection

### Occupational exposure limits

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Benzene (CAS 71-43-2)	STEL	5 ppm
	TWA	1 ppm

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Naphthalene (CAS 91-20-3)	PEL	50 mg/m <sup>3</sup>
		10 ppm

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Benzene (CAS 71-43-2)	Ceiling	25 ppm
	TWA	10 ppm
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Benzene (CAS 71-43-2)	STEL	2.5 ppm	Inhalable fraction and vapor.
	TWA	0.5 ppm	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
Petroleum distillates (CAS 68476-34-6)	TWA	100 mg/m3	
Toluene (CAS 108-88-3)	TWA	20 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Benzene (CAS 71-43-2)	STEL	1 ppm
	TWA	0.1 ppm
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3
		15 ppm
	TWA	50 mg/m3
Toluene (CAS 108-88-3)		10 ppm
	STEL	560 mg/m3
		150 ppm
	TWA	375 mg/m3
		100 ppm

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Benzene (CAS 71-43-2)	25 µg/g	S-Phenylmercapturic acid	Creatinine in urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

\* - For sampling details, please see the source document.

**Appropriate engineering controls**

Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Face shield or chemical goggles.

**Skin protection****Hand protection**

Nitrile rubber Viton™. PVC gloves. Tychem™ BR/LV. Tychem™ TK.

**Other**

Use of protective coveralls and long sleeves is recommended.  
If clothing or footwear becomes contaminated with the product, remove it and completely decontaminate it before re-use, or discard it.

**Respiratory protection**

For confined spaces, wear a NIOSH-approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.  
Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

**Thermal hazards**

Not applicable.

**General hygiene considerations**

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks and immediately after handling the product.

**9. Physical and Chemical Properties**

<b>Appearance</b>	Clear
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Color</b>	Water white
<b>Odor</b>	Kerosene
<b>Odor threshold</b>	Not available.

<b>pH</b>	Not applicable
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	300 - 700 °F (148.89 - 371.11 °C)
<b>Pour point</b>	-60 - 10 °F (-51.11 - -12.22 °C)
<b>Specific gravity</b>	0.8 - 0.86 @ 15°C
<b>Partition coefficient (n-octanol/water)</b>	3.3 - 7.1 (log Kow)
<b>Flash point</b>	120.0 - 160.0 °F (48.9 - 71.1 °C) Closed Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	0.6-1.3
<b>Flammability limit - upper (%)</b>	6-7.5
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	2.12 - 26.4 mmHg @ 21°C
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Not available.
<b>Auto-ignition temperature</b>	494.6 °F (257 °C)
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	1.3 - 3.6 cSt @ 104°F

## 10. Stability and Reactivity

<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Heat, open flames, static discharge, sparks and other ignition sources.
<b>Incompatible materials</b>	Acids. Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Aromatic hydrocarbons.

## 11. Toxicological Information

<b>Routes of exposure</b>	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	May be fatal if swallowed and enters airways.
<b>Inhalation</b>	Harmful if inhaled. Prolonged inhalation may be harmful. May cause damage to organs by inhalation.
<b>Skin contact</b>	Causes skin irritation.
<b>US ACGIH Threshold Limit Values: Skin designation</b>	
Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
Petroleum distillates (CAS 68476-34-6)	IV total hydrocarbons Can be absorbed through the skin.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Skin irritation. May cause redness and pain.
<b>Information on toxicological effects</b>	
<b>Acute toxicity</b>	Harmful if inhaled. May be fatal if swallowed and enters airways.

Components	Species	Test Results
Benzene (CAS 71-43-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Guinea pig	> 9400 mg/kg
	Rabbit	8263 mg/kg
		8260 mg/kg
<i>Inhalation</i>		
LC50	Mouse	9980 ppm
	Rat	44700 mg/m3, 4 Hours
		13700 mg/l/4h
		10000 ppm, 7 Hours
<i>Oral</i>		
LD50	Mouse	4700 mg/kg
	Rat	2990 mg/kg
		690 mg/kg
Benzo[a]pyrene (CAS 50-32-8)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	
Naphthalene (CAS 91-20-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
		> 20 g/kg
		> 2 g/kg
	Rat	2500 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 340 mg/m3, 1 Hours
		> 0.2 mg/l, 4 Hours, (Vapor)
		> 0.1 mg/l, 4 Hours, (Dust)
		500 mg/m3, 8 Hours
		141 ppm, 4 Hours
		85 mg/m3, 4 Hours, (dust)
<i>Oral</i>		
LD50	Guinea pig	1200 mg/kg
	Mouse	533 mg/kg
	Rat	490 mg/kg
Petroleum distillates (CAS 68476-34-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	1 - 5 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Toluene (CAS 108-88-3)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	12196 mg/kg

Components	Species	Test Results
		12125 mg/kg
		8390 mg/kg
		14.1 ml/kg
<i>Inhalation</i>		
LC50	Mouse	7100 mg/l, 4 Hours
		5320 ppm, 8 Hours
		400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours
		<= 28800 mg/m³, 4 Hours
		12200 ppm, 2 Hours
		8000 ppm, 4 Hours
		12.5 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5580 mg/kg
		636 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Exposure minutes</b>	Not available.	
<b>Erythema value</b>	Not available.	
<b>Oedema value</b>	Not available.	
<b>Serious eye damage/eye irritation</b>	Direct contact with eyes may cause temporary irritation.	
<b>Corneal opacity value</b>	Not available.	
<b>Iris lesion value</b>	Not available.	
<b>Conjunctival reddening value</b>	Not available.	
<b>Conjunctival oedema value</b>	Not available.	
<b>Recover days</b>	Not available.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available.	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.	
<b>US ACGIH Threshold Limit Values: Skin designation</b>		
Benzene (CAS 71-43-2)		Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)		Can be absorbed through the skin.
Petroleum distillates (CAS 68476-34-6)		IV total hydrocarbons Can be absorbed through the skin.
<b>US ACGIH Threshold Limit Values: Skin designation</b>		
Benzene (CAS 71-43-2)		Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)		Can be absorbed through the skin.
Petroleum distillates (CAS 68476-34-6)		IV total hydrocarbons Can be absorbed through the skin.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Carcinogenicity</b>	Contains < 3% (w/w) DMSO-extract	
<b>ACGIH Carcinogens</b>		
Benzene (CAS 71-43-2)		A1 Confirmed human carcinogen.
Benzo[a]pyrene (CAS 50-32-8)		A2 Suspected human carcinogen.
Naphthalene (CAS 91-20-3)		A4 Not classifiable as a human carcinogen.
Petroleum distillates (CAS 68476-34-6)		A3 Confirmed animal carcinogen with unknown relevance to humans.
Toluene (CAS 108-88-3)		A4 Not classifiable as a human carcinogen.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Benzene (CAS 71-43-2)		Volume 29, Supplement 7, Volume 100F 1 Carcinogenic to humans.
Benzo[a]pyrene (CAS 50-32-8)		Volume 92, Volume 100F 1 Carcinogenic to humans.
Naphthalene (CAS 91-20-3)		Volume 82 - 2B Possibly carcinogenic to humans.
Petroleum distillates (CAS 68476-34-6)		Volume 45 - 3 Not classifiable as to carcinogenicity to humans.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Benzene (CAS 71-43-2)

Carcinogenic.

Benzo[a]pyrene (CAS 50-32-8)

Carcinogenic.

Naphthalene (CAS 91-20-3)

Carcinogenic.

**US NTP Report on Carcinogens: Anticipated carcinogen**

Benzo[a]pyrene (CAS 50-32-8)

Reasonably Anticipated to be a Human Carcinogen.

Naphthalene (CAS 91-20-3)

Reasonably Anticipated to be a Human Carcinogen.

**US NTP Report on Carcinogens: Known carcinogen**

Benzene (CAS 71-43-2)

Known To Be Human Carcinogen.

**Reproductive toxicity**

Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity**

Toluene (benzene, methyl-) has caused fetotoxicity (reduced fetal weight), behavioural effects (effects on learning and memory) and hearing loss (in males). These effects have been observed in the offspring of rats exposed by inhalation to 1200 or 1800 ppm toluene. These effects were observed in the absence of maternal toxicity.

**Specific target organ toxicity - single exposure**

Not classified.

**Specific target organ toxicity - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**Chronic effects**

Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated exposure can cause kidney damage.

**Further information**

Not available.

**Name of Toxicologically Synergistic Products**

Other CNS depressants can be expected to produce additive or synergistic effects.

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**12. Ecological Information**


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**Ecotoxicity**

Components of this product have been identified as having potential environmental concerns.

**Components****Species****Test Results**

Benzene (CAS 71-43-2)

Algae

IC50

Algae

29 mg/L, 72 Hours

Crustacea

EC50

Daphnia

12.18 mg/L, 48 Hours

**Aquatic**

Crustacea

EC50

Water flea (Daphnia magna)

8.76 - 15.6 mg/l, 48 hours

Fish

LC50

Rainbow trout, donaldson trout (Oncorhynchus mykiss)

7.2 - 11.7 mg/l, 96 hours

Naphthalene (CAS 91-20-3)

Algae

IC50

Algae

0.4 mg/L, 72 Hours

Crustacea

EC50

Daphnia

2.16 mg/L, 48 Hours

**Aquatic**

Crustacea

EC50

Water flea (Daphnia magna)

1.09 - 3.4 mg/l, 48 hours

Fish

LC50

Pink salmon (Oncorhynchus gorbuscha)

1.11 - 1.68 mg/l, 96 hours

Toluene (CAS 108-88-3)

Algae

IC50

Algae

433 mg/L, 72 Hours

Crustacea

EC50

Daphnia

7.645 mg/L, 48 Hours

**Aquatic**

Crustacea

EC50

Water flea (Daphnia magna)

5.46 - 9.83 mg/l, 48 hours

Fish

LC50

Coho salmon, silver salmon (Oncorhynchus kisutch)

8.11 mg/l, 96 hours

**Persistence and degradability**

Non-persistent/ Group 1

**Bioaccumulative potential**

Not available.

**Mobility in soil**

No data available.

**Mobility in general**

Not available.

**Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



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### 13. Disposal Considerations

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<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>US RCRA Hazardous Waste U List: Reference</b>	
Benzene (CAS 71-43-2)	U019
Benzo[a]pyrene (CAS 50-32-8)	U022
Naphthalene (CAS 91-20-3)	U165
Toluene (CAS 108-88-3)	U220
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. 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).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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### 14. Transport Information

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<b>General</b>	Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.
<b>U.S. Department of Transportation (DOT)</b>	
<b>Basic shipping requirements:</b>	
UN number	UN1202
Proper shipping name	Diesel fuel
Hazard class	3
Packing group	III
Special provisions	144, B1, IB3, T2, TP1
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242
<b>Transportation of Dangerous Goods (TDG - Canada)</b>	
<b>Basic shipping requirements:</b>	
UN number	UN1202
Proper shipping name	DIESEL FUEL; FUEL OIL; GAS OIL; or HEATING OIL LIGHT
Hazard class	3
Packing group	III

DOT



TDG



## 15. Regulatory Information

**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

### Canada CEPA Schedule I: Listed substance

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.

### Canada DSL Challenge Substances: Listed substance

Naphthalene (CAS 91-20-3)	Listed.
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### Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Benzene (CAS 71-43-2)	1 TONNES
Toluene (CAS 108-88-3)	1 TONNES

### Canada WHMIS Ingredient Disclosure: Threshold limits

Benzene (CAS 71-43-2)	0.1 %
Benzo[a]pyrene (CAS 50-32-8)	0.1 %
Naphthalene (CAS 91-20-3)	1 %
Toluene (CAS 108-88-3)	1 %

**WHMIS status** Controlled

**WHMIS classification** Class B - Division 3 - Combustible Liquid, Class D - Division 1B, 2B

**WHMIS labeling**



**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Benzene (CAS 71-43-2)	0.1 %
Benzo[a]pyrene (CAS 50-32-8)	0.1 % Substance is not eligible for the de minimis exemption except for the purposes of supplier notification requirements.
Naphthalene (CAS 91-20-3)	0.1 %
Toluene (CAS 108-88-3)	1.0 %

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Reportable threshold

Benzo[a]pyrene (CAS 50-32-8)	100 LBS
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### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

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

Not regulated.

### US CWA Section 311 Hazardous Substances: Listed substance

Benzene (CAS 71-43-2)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

### US CWA Section 307(a)(1) Toxic Pollutants: Listed substance

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

### US CAA Section 111 Volatile Organic Compounds: Listed substance

Benzene (CAS 71-43-2)	Listed.
Toluene (CAS 108-88-3)	Listed.

### US CAA Section 112(i) High-Risk Hazardous Air Pollutants (HAPs): Weight factor

Benzene (CAS 71-43-2)	10
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### US CAA Section 112(i) High-Risk Hazardous Air Pollutants (HAPs): Listed substance

Benzene (CAS 71-43-2)	Listed.
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**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard - Yes
	Delayed Hazard - Yes
	Fire Hazard - Yes
	Pressure Hazard - No
	Reactivity Hazard - No

<b>SARA 302 Extremely hazardous substance</b>	No
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<b>SARA 311/312 Hazardous chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated.
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**Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.
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<b>Food and Drug Administration (FDA)</b>	Not regulated.
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<b>US state regulations</b>	WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.
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**US - California Hazardous Substances (Director's): Listed substance**

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

**US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

**US - Connecticut Carcinogenic Substance Reporting: Listed substance**

Benzene (CAS 71-43-2)	Listed.
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**US - Illinois Chemical Safety Act: Listed substance**

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

**US - Louisiana Spill Reporting: Listed substance**

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

**US - Michigan Critical Materials Register: Parameter number**

Benzene (CAS 71-43-2)	00071-43-2 Listed.
Benzo[a]pyrene (CAS 50-32-8)	00050-32-8 Listed.
Toluene (CAS 108-88-3)	00108-88-3 Listed.

**US - Minnesota Haz Subs: Listed substance**

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

**US - New Jersey RTK - Substances: Listed substance**

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Toluene (CAS 108-88-3)	Listed.

**US - New York Release Reporting: Hazardous Substances: Listed substance**

Benzene (CAS 71-43-2)	Listed.
Benzo[a]pyrene (CAS 50-32-8)	Listed.

Naphthalene (CAS 91-20-3) Listed.  
Toluene (CAS 108-88-3) Listed.

**US - North Carolina Toxic Air Pollutants: Listed substance**

Benzene (CAS 71-43-2) Listed.  
Benzo[a]pyrene (CAS 50-32-8) Listed.  
Toluene (CAS 108-88-3) Listed.

**US - Pennsylvania RTK - Hazardous Substances: Special hazard**

Benzene (CAS 71-43-2) Special hazard.  
Benzo[a]pyrene (CAS 50-32-8) Special hazard.

**US - Texas Effects Screening Levels: Listed substance**

Benzene (CAS 71-43-2) Listed.  
Benzo[a]pyrene (CAS 50-32-8) Listed.  
Naphthalene (CAS 91-20-3) Listed.  
Toluene (CAS 108-88-3) Listed.

**US - Washington Chemical of High Concern to Children: Listed substance**

Benzene (CAS 71-43-2) Listed.  
Toluene (CAS 108-88-3) Listed.

**US. Massachusetts RTK - Substance List**

Benzene (CAS 71-43-2) Listed.  
Benzo[a]pyrene (CAS 50-32-8) Listed.  
Naphthalene (CAS 91-20-3) Listed.  
Toluene (CAS 108-88-3) Listed.

**US. Pennsylvania RTK - Hazardous Substances**

Benzene (CAS 71-43-2) Listed.  
Benzo[a]pyrene (CAS 50-32-8) Listed.  
Naphthalene (CAS 91-20-3) Listed.  
Toluene (CAS 108-88-3) Listed.

**US. Rhode Island RTK**

Benzene (CAS 71-43-2) Listed.  
Benzo[a]pyrene (CAS 50-32-8) Listed.  
Naphthalene (CAS 91-20-3) Listed.  
Toluene (CAS 108-88-3) Listed.

**Inventory status**

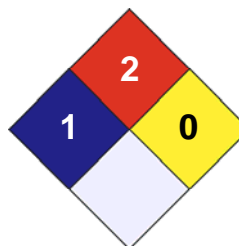
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

**16. Other Information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	* 1
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



**Disclaimer**

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**Issue date**

22-April-2015

**Effective date**

22-April-2015

**Expiry date**

22-April-2018

**Further information**

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Prepared by**

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

**Other information**

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard. This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).