



SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	High Sulphur Fuel Oil
Other means of identification	
Synonyms	ASTM Heating Oil
Recommended use	Fuel
Recommended restrictions	None known.
Manufacturer information	Irving Oil Refining G.P. Box 1260 Saint John, NB E2L 4H6 CA Phone: (506) 202-2000 Refinery: (506) 202-3000
Supplier	See above.

2. Hazards Identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2B
	Germ cell mutagenicity	Category 1
	Carcinogenicity	Category 1
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	
Label elements		



Signal word	Danger
Hazard statement	Flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes eye irritation. Harmful if inhaled. May cause genetic defects. May cause cancer.

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.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Use only outdoors or in a well-ventilated area.
Avoid breathing vapors.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/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 information on this label).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
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.
IF exposed or concerned: Get medical advice/attention.

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.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
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	%
Fuel oil No. 2		68476-30-2	90-100
Sulfur		7704-34-9	0.1-1
Benzene		71-43-2	<0.1
Naphthalene		91-20-3	<0.1

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

Composition comments	<p>*High Sulphur Fuel Oil 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. It contains hundreds of individual organic chemicals. This section identifies only some of the well-known chemical constituents.</p> <p>*There is a trace amount of Hydrogen Sulfide in the vapor space.</p>
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4. First Aid Measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical advice/attention. Specific treatment (see information on this label).
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
Most important symptoms/effects, acute and delayed	Skin irritation. May cause redness and pain. Exposed individuals may experience eye tearing, redness, and discomfort.
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Keep away from sources of ignition. No smoking. Avoid contact with eyes and skin. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media	Carbon dioxide (CO ₂). Dry chemical powder. Foam.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Container may explode in heat of fire. Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable liquid and vapor.
Hazardous combustion products	May include and are not limited to: Oxides of nitrogen. Polycyclic aromatic hydrocarbons (PAHs). Aromatic hydrocarbons.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 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. 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. Never return spills to original containers for re-use. Following product recovery, flush area with water. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling	<p>Obtain special instructions before use.</p> <p>Do not handle until all safety precautions have been read and understood.</p> <p>Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight.</p> <p>Use non-sparking tools and explosion-proof equipment.</p> <p>All equipment used when handling the product must be grounded.</p> <p>Avoid contact with eyes, skin and clothing.</p> <p>Wear appropriate personal protective equipment.</p> <p>Avoid breathing vapor.</p> <p>Avoid prolonged exposure.</p> <p>Observe good industrial hygiene practices.</p> <p>When using do not eat or drink.</p> <p>Wash thoroughly after handling.</p> <p>When handling, do not eat, drink or smoke.</p>
Conditions for safe storage, including any incompatibilities	<p>Store locked up.</p> <p>Store in a cool, dry place out of direct sunlight.</p> <p>Store in a well-ventilated place.</p> <p>Store away from incompatible materials (see Section 10 of the SDS).</p>

8. Exposure Controls/Personal Protection

Occupational exposure limits

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

Components	Type	Value
Benzene (CAS 71-43-2)	STEL	8 mg/m ³ 2.5 ppm
	TWA	1.6 mg/m ³ 0.5 ppm
Fuel oil No. 2 (CAS 68476-30-2)	TWA	100 mg/m ³
Naphthalene (CAS 91-20-3)	STEL	79 mg/m ³ 15 ppm
	TWA	52 mg/m ³ 10 ppm
Sulfur (CAS 7704-34-9)	TWA	10 mg/m ³

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

Components	Type	Value	Form
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Fuel oil No. 2 (CAS 68476-30-2)	TWA	100 mg/m ³	Vapor and aerosol.
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	

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

Components	Type	Value	Form
Benzene (CAS 71-43-2)	STEL	2.5 ppm	

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

Components	Type	Value	Form
	TWA	0.5 ppm	
Fuel oil No. 2 (CAS 68476-30-2)	TWA	100 mg/m3	Inhalable fraction and vapor.
Naphthalene (CAS 91-20-3)	TWA	10 ppm	

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

Components	Type	Value	Form
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Fuel oil No. 2 (CAS 68476-30-2)	TWA	100 mg/m3	Inhalable fraction and vapor.
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value	Form
Benzene (CAS 71-43-2)	STEL	15.5 mg/m3	
		5 ppm	
	TWA	3 mg/m3	
		1 ppm	
Naphthalene (CAS 91-20-3)	STEL	79 mg/m3	
		15 ppm	
	TWA	52 mg/m3	
		10 ppm	

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

Components	Type	Value	Form
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	Form
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3	
		10 ppm	

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

Components	Type	Value	Form
Benzene (CAS 71-43-2)	Ceiling	25 ppm	
	TWA	10 ppm	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Benzene (CAS 71-43-2)	STEL	2.5 ppm	
	TWA	0.5 ppm	
Fuel oil No. 2 (CAS 68476-30-2)	TWA	100 mg/m3	Inhalable fraction and vapor.
Naphthalene (CAS 91-20-3)	TWA	10 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
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	
		10 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	*

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

Exposure guidelines

Canada - Alberta OELs: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Fuel oil No. 2 (CAS 68476-30-2)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Fuel oil No. 2 (CAS 68476-30-2)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Fuel oil No. 2 (CAS 68476-30-2)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Fuel oil No. 2 (CAS 68476-30-2)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Benzene (CAS 71-43-2)	Can be absorbed through the skin.
Fuel oil No. 2 (CAS 68476-30-2)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Appropriate engineering controls Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Face shield or chemical goggles.

Skin protection

Hand protection Tychem™ BR/LV. or Tychem™ TK.

Other

Wear appropriate chemical resistant clothing. 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

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. 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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. Physical and Chemical Properties

Appearance	Clear
Physical state	Liquid.
Form	Liquid
Color	Clear to Golden
Odor	Petroleum
Odor threshold	Not available.
pH	Not applicable
Melting point/freezing point	Not available.
Initial boiling point and boiling range	266 - 716 °F (130 - 380 °C) (Typically)
Pour point	-10 - -60 °F (-23.33 - -51.11 °C)
Specific gravity	0.88 @ 15°C

Partition coefficient (n-octanol/water)	Not available
Flash point	109.4 °F (43.0 °C) Closed Cup (MIN)
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	0.6-1.3
Flammability limit - upper (%)	6-7.5
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	2.1 - 2.6 mmHg @ 21°C
Vapor density	Not available
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	465.8 °F (241 °C)
Decomposition temperature	Not available.
Viscosity	1.3 - 4.1 mm ² /s @ 40°C

10. Stability and Reactivity

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

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	May be fatal if swallowed and enters airways.
Inhalation	Harmful if inhaled. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Skin irritation. May cause redness and pain. Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled.

Components	Species	Test Results
Benzene (CAS 71-43-2)		
Acute		
<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/m ³ , 4 Hours
		13700 mg/l/4h
		10000 ppm, 7 Hours

Components	Species	Test Results
<i>Oral</i>		
LD50	Mouse	4700 mg/kg
	Rat	2990 mg/kg
		690 mg/kg
Naphthalene (CAS 91-20-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 0.4 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
Sulfur (CAS 7704-34-9)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	>= 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	>= 6.2 mg/l/4h
<i>Oral</i>		
LD50	Human	> 5000 mg/kg
	Rat	>= 3000 mg/kg
Skin corrosion/irritation	Causes skin irritation.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	Causes eye irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Respiratory sensitization	Not available.	
Skin sensitization	Prolonged or repeated exposure can cause drying, defatting and dermatitis.	
Mutagenicity	May cause genetic defects. The mutagenicity of benzene has been extensively studied in rats and mice using inhalation and oral exposure techniques. Positive results have been obtained for many tests including and not limited to chromosome aberrations, micronuclei, sister chromatid exchanges, point mutations, DNA adducts, DNA repair, DNA damage, aneuploidy and sperm head abnormalities.	
Carcinogenicity	Benzene, naphthalene and certain polycyclic aromatic hydrocarbons (PAHs) are known carcinogens. Exposure of rats and mice to benzene by inhalation or ingestion routes has caused cancer of the lymph system (lymphoma), the blood (leukemia), and the bone marrow (myeloma). It has also caused tumours of the liver, zymbal gland, mammary gland, lungs, thymus, nasal and oral cavities.	
ACGIH Carcinogens		
Benzene (CAS 71-43-2)	A1 Confirmed human carcinogen.	
Fuel oil No. 2 (CAS 68476-30-2)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
Naphthalene (CAS 91-20-3)	A3 Confirmed animal carcinogen with unknown relevance to humans.	
Canada - Alberta OELs: Carcinogen category		
Benzene (CAS 71-43-2)	Confirmed human carcinogen.	
Canada - Manitoba OELs: carcinogenicity		
BENZENE (CAS 71-43-2)	Confirmed human carcinogen.	

DIESEL FUEL, AS TOTAL HYDROCARBONS,
 INHALABLE FRACTION AND VAPOR (CAS 68476-30-2)
 NAPHTHALENE (CAS 91-20-3)

Confirmed animal carcinogen with unknown relevance to humans.

Confirmed animal carcinogen with unknown relevance to humans.

Canada - Quebec OELs: Carcinogen category

Benzene (CAS 71-43-2)

Detected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene (CAS 71-43-2)

Volume 29, Supplement 7, Volume 100F 1 Carcinogenic to humans.

Fuel oil No. 2 (CAS 68476-30-2)

Volume 45 - 3 Not classifiable as to carcinogenicity to humans.

Naphthalene (CAS 91-20-3)

Volume 82 - 2B Possibly carcinogenic to humans.

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

Benzene (CAS 71-43-2)

Naphthalene (CAS 91-20-3)

US NTP Report on Carcinogens: Anticipated 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.

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

Benzene (CAS 71-43-2)

Cancer

Reproductive toxicity

Not classified.

Teratogenicity

Not classified.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

May be fatal if swallowed and enters airways.

Chronic effects

Prolonged inhalation may be harmful. Prolonged or repeated overexposure can cause liver and kidney damage.
 Blood disorder may occur after prolonged skin contact.

12. Ecological Information

Ecotoxicity

See below

Ecotoxicological data 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

Sulfur (CAS 7704-34-9)

Aquatic

Fish

LC50

Western mosquitofish (Gambusia affinis) > 10000 mg/L, 96 hours

Persistence and degradability

Non-persistent/ Group 1

Bioaccumulative potential

No data 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.

13. Disposal Considerations

Disposal instructions

Review federal, provincial, and local government requirements prior to disposal.

Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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).
Contaminated packaging	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.

14. Transport Information

Transport of Dangerous Goods (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.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number	UN1202
Proper shipping name	Diesel fuel
Hazard class	3
Packing group	III
Special provisions	144, B1, IB3, T2, TP1
Packaging exceptions	150

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1202
Proper shipping name	DIESEL FUEL
Hazard class	3
Packing group	III
Special provisions	88, 91, 150

DOT



TDG



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR.

Canada CEPA Schedule I: Listed substance

Benzene (CAS 71-43-2)	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
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Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Controlled**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)Benzene (CAS 71-43-2) Listed.
Naphthalene (CAS 91-20-3) Listed.**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**Benzene (CAS 71-43-2) Cancer
Central nervous system
Blood
Aspiration
Skin
Eye
respiratory tract irritation
Flammability**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories** Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No**SARA 302 Extremely hazardous substance** No**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Benzene	71-43-2	<0.1
Naphthalene	91-20-3	<0.1

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**Benzene (CAS 71-43-2)
Naphthalene (CAS 91-20-3)**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

US state regulations See below**US - California Hazardous Substances (Director's): Listed substance**Benzene (CAS 71-43-2) Listed.
Naphthalene (CAS 91-20-3) Listed.
Sulfur (CAS 7704-34-9) Listed.**US - Illinois Chemical Safety Act: Listed substance**Benzene (CAS 71-43-2)
Naphthalene (CAS 91-20-3)**US - Louisiana Spill Reporting: Listed substance**Benzene (CAS 71-43-2) Listed.
Naphthalene (CAS 91-20-3) Listed.**US - Michigan Critical Materials Register: Parameter number**

Benzene (CAS 71-43-2) BENZENE

US - Minnesota Haz Subs: Listed substanceBenzene (CAS 71-43-2) Listed.
Naphthalene (CAS 91-20-3) Listed.**US - New Jersey RTK - Substances: Listed substance**Benzene (CAS 71-43-2)
Fuel oil No. 2 (CAS 68476-30-2)
Naphthalene (CAS 91-20-3)
Sulfur (CAS 7704-34-9)**US - North Carolina Toxic Air Pollutants: Listed substance**

Benzene (CAS 71-43-2)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

Benzene (CAS 71-43-2)

US - Texas Effects Screening Levels: Listed substanceBenzene (CAS 71-43-2) Listed.
Naphthalene (CAS 91-20-3) Listed.
Sulfur (CAS 7704-34-9) Listed.**US - Washington Chemical of High Concern to Children: Listed substance**

Benzene (CAS 71-43-2)

US. Massachusetts RTK - Substance ListBenzene (CAS 71-43-2)
Naphthalene (CAS 91-20-3)
Sulfur (CAS 7704-34-9)**US. New Jersey Worker and Community Right-to-Know Act**Benzene (CAS 71-43-2)
Naphthalene (CAS 91-20-3)**US. Pennsylvania Worker and Community Right-to-Know Law**Benzene (CAS 71-43-2)
Fuel oil No. 2 (CAS 68476-30-2)
Naphthalene (CAS 91-20-3)
Sulfur (CAS 7704-34-9)**US. Rhode Island RTK**Benzene (CAS 71-43-2)
Naphthalene (CAS 91-20-3)**US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substanceBenzene (CAS 71-43-2) Listed: February 27, 1987
Naphthalene (CAS 91-20-3) Listed: April 19, 2002**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

Benzene (CAS 71-43-2) Listed: December 26, 1997

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Benzene (CAS 71-43-2) Listed: December 26, 1997

Inventory status

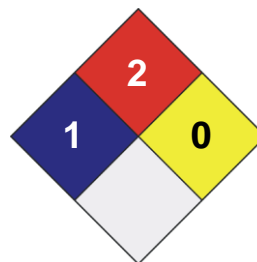
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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

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

Other information

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by the HPR. For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.