

**Safety Data Sheet**

according to the Hazardous Products Regulation (WHMIS 2015)

Issue date: 04/18/2025 Revision date: 06/02/2026 Supersedes: 04/30/2026 Version: 5.1

**SECTION 1 Identification****1.1. GHS Product identifier**

Product form : Mixture  
Product name : Winter Shield Diesel Treatment  
Type of product : Fuel additives  
Part Number : 20866

**1.2. Other means of identification**

No additional information available

**1.3. Recommended use of the chemical and restrictions on use**

Use of the substance/mixture : Fuel additives  
Recommended use : Fuel additives  
Restrictions on use : No additional information available

**1.4. Supplier's details**

Lucas Oil Products, Inc.  
3199 Harrison Way NW  
Corydon, IN 47112  
USA  
T 800-342-2512  
[sds@lucasoil.com](mailto:sds@lucasoil.com) - [www.LucasOil.com](http://www.LucasOil.com)

**1.5. Emergency phone number**

Emergency number : For Chemical Emergency Call ChemTel 24hr/day 7days/week. Within USA, Canada, Puerto Rico & US Virgin Islands: 1-800-255-3924. International: 1-813-248-0585 (collect calls accepted). Australia: 1-300-954-583. Brazil: 0-800-591-6042. China: 400-120-0751. India: 000-800-100-4086. Mexico: 800-099-0731.

**SECTION 2 Hazard identification****2.1. Classification of the substance or mixture****Classification (GHS CA)**

Flammable liquids, Category 4	H227	Combustible liquid.
Acute toxicity (inhalation), Category 4	H332	Harmful if inhaled.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Carcinogenicity, Category 2	H351	Suspected of causing cancer.
Aspiration hazard, Category 1	H304	May be fatal if swallowed and enters airways.
Hazardous to the aquatic environment, Acute Hazard, Category 2	H401	Toxic to aquatic life.
Hazardous to the aquatic environment, Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.

Full text of H-statements: see section 16

**2.2. GHS label elements, including precautionary statements****GHS CA labelling**

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Danger

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Hazard statements (GHS CA)	: H227 - Combustible liquid H304 - May be fatal if swallowed and enters airways H319 - Causes serious eye irritation H332 - Harmful if inhaled H351 - Suspected of causing cancer. H401 - Toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS CA)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing dust, fume, gas, mist, vapours, spray. P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or a doctor. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice or attention. P312 - Call a POISON CENTER or a doctor if you feel unwell. P331 - Do NOT induce vomiting. P337+P313 - If eye irritation persists: Get medical advice or attention. P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO <sub>2</sub> ), dry extinguishing powder to extinguish. P391 - Collect spillage. P403 - Store in a well-ventilated place. P405 - Store locked up. P501 - Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Distillates (petroleum), hydrotreated light	Distillates (petroleum), hydrotreated light distillates (petroleum), hydrotreated light / kerosine - unspecified	CAS-No.: 64742-47-8	30 - 60*	Asp. Tox. 1, H304

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Distillates (petroleum), hydrotreated light naphthenic	Distillates (petroleum), hydrotreated light naphthenic Distillates (petroleum), hydrotreated light naphthenic	CAS-No.: 64742-53-6	15 - 40*	Asp. Tox. 1, H304
Solvent naphtha (petroleum), heavy arom.	Solvent naphtha (petroleum), heavy arom. (polyethyl)benzenes / caromax 19 / caromax 20E / caromax 29 / corexit 8352 / CW naphtha / EFA 180/200 / EFA 240/270 / heavy aromatic naphtha / heavy aromatic solvent naphtha / kemelix H610 / NEFRAS 150/330 / petrinex ASB / re-run tower bottems. / SOLAREX 90/160 / SOLVAREX 10 / SOLVAREX 9 / SOLVAREX 90/180 / SOLVARO 290 / SOLVARO 300 / SOLVARO AFD / SOLVARO K / solvent naphtha (petroleum), heavy arom. / solvent naphtha (petroleum), heavy aromatic / washed aromatic residues	CAS-No.: 64742-94-5	10 - 30*	Asp. Tox. 1, H304

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
2-Ethylhexyl nitrate	2-Ethylhexyl nitrate 2-EHN / 2-ethyl hexyl nitrate / 2-ethylhexyl nitrate / 3-nitro-oxymethylheptane / 3-nitroxymethylheptane / Cetane Improver / CI-0801 / Du Pont diesel additive 1000 / ECA 8478 / ethyl diesel ignition improver 3 / ethyl DII-3 / ethylhexyl nitrate / exchem GO-1 cetane improver / EXXON ECA 8478 / HiTec 4103 / HiTec 4103 fuel additive / isooctyl nitrate / NEH / nitric acid, 2-ethylhexyl ester / nitric acid, 2-ethylhexyl ester of / NITROCET 50 / nitronal / octel CI-0801 cetane number improver / octyl nitrate / procetane	CAS-No.: 27247-96-7	3 - 7*	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 2, H411
2-Butoxyethanol	2-Butoxyethanol ; Ethylene glycol monobutyl ether 2-butoxyethanol / BGE / butyl cellosolve / butylglycol ether / EGBE / ethanol, 2-butoxy- / ethylene glycol monobutyl ether / monobutyl ether of ethyleneglycol	CAS-No.: 111-76-2	1 - 5*	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Naphthalene	Naphthalene alabrastine / alboarbon / camphor tar / camphylene / carbon, disinfecting / coal tar camphor / creosote salts, crude naphthalene / DEZODORATOR / flake naphthalene / goudron camphre / mighty 150 / mighty RD1 / moth balls / moth balls, flakes / moth flakes / naphthalin / naphtha balls, flakes / naphthalene / naphthalene, pure / naphthaline / naphthene / none / tar camphor / tar white / white tar	CAS-No.: 91-20-3	1 - 5*	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Benzene, 1,2,4-trimethyl-	1,2,4-Trimethylbenzene 1,2,4-TMB (=1,2,4-trimethylbenzene) / 1,2,4-trimethylbenzene / 1,2,4-trimethylpseudocumene / 1,2,5-TMB (=1,2,5-trimethylbenzene) / 1,2,5-trimethylbenzene / 1,3,4-trimethylbenzene / asymmetrical-trimethylbenzene / benzene, 1,2,4-trimethyl- / benzene, 1,2,5-trimethyl- / pseudocumene / pseudocumene OEKANAL / psicumene	CAS-No.: 95-63-6	1 - 5*	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:gas), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
2,4-Di-tert-butylphenol	2,4-Bis(1,1-dimethylethyl)phenol 2,4-bis(1,1-dimethylethyl)phenol / 2,4-di(1,1-dimethylethyl)phenol / 2,4-di-tert-butylphenol / 2,4-di-tert-dibutylphenol / 2,4-di-tertiary-butylphenol / antioxidant No 33 / phenol, 2,4-bis(1,1-dimethylethyl)- / phenol, 2,4-di(1,1-dimethylethyl)- / phenol, 2,4-di-tert-butyl- / prodox 146 / prodox 146A-85X	CAS-No.: 96-76-4	0.1 - 1*	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Kerosine (petroleum), hydrodesulfurized	Kerosine (petroleum), hydrodesulfurized kerosine - unspecified / Kerosine (petroleum), hydrodesulfurized	CAS-No.: 64742-81-0	0.02 - 1*	Asp. Tox. 1, H304 Aquatic Chronic 2, H411

\*Chemical name, CAS number and/or exact concentration have been withheld as CBI

\*Contains fixed concentration

## SECTION 4 First-aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor. Give oxygen or artificial respiration if necessary. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting/risk of damage to lungs exceeds poisoning risk. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a physician immediately.
First-aid measures general	: If medical advice is needed, have product container or label at hand. Call a physician immediately.
Self protection of the first-aiders	: First aid workers will be equipped with suitable personal protective equipment.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: May cause drowsiness or dizziness. May cause shortness of breath, tightness of the chest, a sore throat and cough. Harmful if inhaled.
Symptoms/effects after skin contact	: Causes skin irritation. Redness. Itching.
Symptoms/effects after eye contact	: Causes serious eye irritation. Blurred vision. redness, itching, tears. Eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Ingestion may cause nausea and vomiting. Abdominal pain. Risk of lung oedema.
Chronic symptoms	: Suspected of causing cancer.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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## SECTION 5 Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

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### 5.2. Specific hazards arising from the chemical

Fire hazard	: In case of fire and/or explosion do not breathe fumes. Heating will cause a rise in pressure with a risk of bursting. Combustible liquid.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide.

### 5.3. Special protective actions for fire-fighters

Firefighting instructions	: Evacuate area. Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: No flames, no sparks. Eliminate all sources of ignition. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
Environmental precautions	: Avoid release to the environment.

### 6.2. Methods and materials for containment and cleaning up

For containment	: Remove ignition sources. Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	: Take up liquid spill into absorbent material. Move containers from fire area if it can be done without personal risk. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Clean contaminated surfaces with an excess of water. Use non-sparking tools. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. 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 dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Keep only in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Store in a well-ventilated place. Keep cool. Store locked up.
Packaging materials	: Always store product in container of same material as original container.

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### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

2-Butoxyethanol (111-76-2)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (Ethylene glycol monobutyl ether)
OEL TWA	97 mg/m <sup>3</sup> 20 ppm
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (Butyl cellosolve®) # Butoxy-2 éthanol (Butylcellosolve®)
VEMP (OEL TWAEV)	20 ppm
Notations and remarks	C3
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety # S-2.1, r. 13 - Règlement sur la santé et la sécurité du travail
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
OEL TWA	20 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
OEL TWA	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
OEL TWA	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
OEL TWA	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025

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<b>2-Butoxyethanol (111-76-2)</b>	
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (Butyl Cellosolve or EGBE) # 2-butoxyéthanol (Butyl Cellosolve ou EGBE)
OEL TWA	20 ppm
OEL STEL	30 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021) # Règlement sur la santé et la sécurité au travail, Règ Nu 003-2016 (Modification R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (Butyl Cellosolve or EGBE) # 2-butoxyéthanol (Butyl Cellosolve ou EGBE)
OEL TWA	20 ppm
OEL STEL	30 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-124-2018) # Règlement sur la santé et la sécurité au travail R-039-2015 (R-124-2018)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
OEL TWAEV	20 ppm
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (EGBE)
OEL TWA	20 ppm
Notations and remarks	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	2-Butoxyethanol (Butyl Cellosolve or EGBE)
OEL TWA	20 ppm
OEL STEL	30 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
<b>Naphthalene (91-20-3)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	52 mg/m <sup>3</sup> 10 ppm
OEL STEL	79 mg/m <sup>3</sup> 15 ppm
Notations and remarks	Substance may be readily absorbed through intact skin.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Naphthalene

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<b>Naphthalene (91-20-3)</b>	
VEMP (OEL TWAEV)	10 ppm
Notations and remarks	C3, Pc
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	10 ppm
Notations and remarks	Skin (the substance that contribute significantly to the overall exposure by the skin route); IARC group 2B carcinogen
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	52 mg/m <sup>3</sup> 10 ppm
Notations and remarks	TLV® Basis: URT irr; Cataracts; Hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	10 ppm
Notations and remarks	Hematologic eff; URT & eye irr; Skin; A3
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	52 mg/m <sup>3</sup> 10 ppm
Notations and remarks	TLV® Basis: URT irr; Cataracts; Hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	52 mg/m <sup>3</sup> 10 ppm
Notations and remarks	TLV® Basis: URT irr; Cataracts; Hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	10 ppm
OEL STEL	15 ppm

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Notations and remarks	Skin
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	10 ppm
OEL STEL	15 ppm
Notations and remarks	Skin
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWAEV	10 ppm
Notations and remarks	Skin
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	52 mg/m <sup>3</sup> 10 ppm
Notations and remarks	TLV® Basis: URT irr; Cataracts; Hemolytic anemia. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Naphthalene
OEL TWA	10 ppm
OEL STEL	15 ppm
Notations and remarks	Skin
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Trimethyl benzene (mixed isomers)
OEL TWA	25 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	1,2,4-Trimethyl benzene
OEL TWA	10 ppm
Notations and remarks	TLV® Basis: CNS impair; Hematologic eff
Regulatory reference	ACGIH 2025

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<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	1,2,4-Trimethyl benzene
OEL TWA	10 ppm
Notations and remarks	TLV® Basis: CNS impair; Hematologic eff
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	1,2,4-Trimethyl benzene
OEL TWA	10 ppm
Notations and remarks	TLV® Basis: CNS impair; Hematologic eff
Regulatory reference	ACGIH 2025
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	1,2,4-Trimethyl benzene
OEL TWA	10 ppm
Notations and remarks	TLV® Basis: CNS impair; Hematologic eff
Regulatory reference	ACGIH 2025
<b>Kerosine (petroleum), hydrodesulfurized (64742-81-0)</b>	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Kerosene/Jet fuels, as total hydrocarbon vapour
OEL TWA	200 mg/m <sup>3</sup>
Notations and remarks	Substance may be readily absorbed through intact skin.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Kerosene
VEMP (OEL TWA <sub>EV</sub> )	200 mg/m <sup>3</sup>
Notations and remarks	C3, Pc
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Kerosene/Jet fuels, as total hydrocarbon vapour
OEL TWA	200 mg/m <sup>3</sup> (P) - application restricted to conditions in which there are negligible aerosol exposures
Notations and remarks	Skin (the substance that contribute significantly to the overall exposure by the skin route)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Hydrogenated kerosene, as total hydrocarbon vapor
OEL TWA	200 mg/m <sup>3</sup> (P - Application restricted to conditions in which there are negligible aerosol exposures)
Notations and remarks	TLV® Basis: Skin & URT irr; CNS impair. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)

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<b>Kerosine (petroleum), hydrodesulfurized (64742-81-0)</b>	
Regulatory reference	ACGIH 2024
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Hydrogenated kerosene, as total hydrocarbon vapor
OEL TWA	200 mg/m <sup>3</sup> (P - Application restricted to conditions in which there are negligible aerosol exposures)
Notations and remarks	TLV® Basis: Skin & URT irr; CNS impair. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Hydrogenated kerosene, as total hydrocarbon vapor
OEL TWA	200 mg/m <sup>3</sup> (P - Application restricted to conditions in which there are negligible aerosol exposures)
Notations and remarks	TLV® Basis: Skin & URT irr; CNS impair. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Kerosene /Jet fuels, as total hydrocarbon vapour
OEL TWA	200 mg/m <sup>3</sup>
OEL STEL	250 mg/m <sup>3</sup>
Notations and remarks	Skin
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Kerosene /Jet fuels, as total hydrocarbon vapour
OEL TWA	200 mg/m <sup>3</sup>
OEL STEL	250 mg/m <sup>3</sup>
Notations and remarks	Skin
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Kerosene / Jet fuels, as total hydrocarbon vapour
OEL TWAEV	200 mg/m <sup>3</sup> (P)
Notations and remarks	Skin (P) Application restricted to conditions in which there are negligible aerosol exposures.
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Hydrogenated kerosene, as total hydrocarbon vapor
OEL TWA	200 mg/m <sup>3</sup> (P - Application restricted to conditions in which there are negligible aerosol exposures)
Notations and remarks	TLV® Basis: Skin & URT irr; CNS impair. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Kerosine (petroleum), hydrodesulfurized (64742-81-0)	
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Kerosene /Jet fuels, as total hydrocarbon vapour
OEL TWA	200 mg/m <sup>3</sup>
OEL STEL	250 mg/m <sup>3</sup>
Notations and remarks	Skin
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety procedures. Ensure exposure is below occupational exposure limits (where available). Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment (PPE)

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

#### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state : Liquid  
Appearance : No data available  
Colour : brown  
Odour : characteristic  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 79.4 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 0.885
Density	: 7.409 lb/gal
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 3.31 mm <sup>2</sup> /s @ 40 ° C
Explosive limits	: No data available
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

Reactivity	: Combustible liquid. Can form explosive mixtures with air. Heating may cause a fire or explosion.
Chemical stability	: Stable under normal conditions of use.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: Oxidizing agent.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

## SECTION 11 Toxicological information

### 11.1. Likely routes of exposure

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.

Winter Shield Diesel Treatment	
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	38.748 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Distillates (petroleum), hydrotreated light (64742-47-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 oral	15000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -

# Winter Shield Diesel Treatment

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according to the Hazardous Products Regulation (WHMIS 2015)

<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
LC50 Inhalation - Rat (Dust/Mist)	> 5.2 mg/l Source: IUCLID
ATE CA (oral)	15000 mg/kg bodyweight
<b>Solvent naphtha (petroleum), heavy arom. (64742-94-5)</b>	
LD50 oral rat	> 5000 mg/kg Source: IUCLID
LD50 oral	3690 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: other:
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity)
LD50 dermal	4100 mg/kg
<b>2-Butoxyethanol (111-76-2)</b>	
ATE CA (oral)	500 mg/kg bodyweight
ATE CA (vapours)	3 mg/l/4h
<b>Naphthalene (91-20-3)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	533 mg/kg bodyweight (Equivalent or similar to OECD 401, Mouse, Male, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 16000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	2500 mg/kg Source: ChemIDplus
LD50 dermal	2500 mg/kg
ATE CA (oral)	533 mg/kg bodyweight
ATE CA (Dermal)	2500 mg/kg bodyweight
<b>2,4-Di-tert-butylphenol (96-76-4)</b>	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 oral	1762 mg/kg
LD50 dermal rabbit	2200 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 dermal	5000 mg/kg
ATE CA (oral)	1762 mg/kg bodyweight
ATE CA (Dermal)	2200 mg/kg bodyweight
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
LD50 oral rat	6000 mg/kg bodyweight (Equivalent or similar to EU Method B.1, Rat, Male, Experimental value, Oral, 014 day(s))
LD50 oral	3280 mg/kg
LD50 dermal rat	3440 mg/kg (24 h, Rat, Male / female, Read-across, Dermal)
LD50 dermal rabbit	> 3160 mg/kg Source: International Uniform Chemical Information Database
LC50 Inhalation - Rat	> 10.2 mg/l air (4 h, Rat, Male / female, Read-across, Inhalation (vapours), 14 day(s))

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
LC50 Inhalation - Rat (Dust/Mist)	18 mg/l/4h
LC50 Inhalation - Rat (Vapours)	18 mg/l Source: Corporate Solution From Thomson Micromedex
ATE CA (oral)	3280 mg/kg bodyweight
ATE CA (Dermal)	3440 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	18 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
<b>Kerosine (petroleum), hydrodesulfurized (64742-81-0)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.1175 (Acute Oral Toxicity), Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.28 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 95% CL: 0,42 -
LC50 Inhalation - Rat (Dust/Mist)	> 5.2 mg/l Source: TOMES
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	2500 mg/kg
ATE CA (oral)	5000 mg/kg bodyweight
ATE CA (Dermal)	2500 mg/kg bodyweight
<b>2-Ethylhexyl nitrate (27247-96-7)</b>	
LD50 oral rat	> 9600 mg/kg (Rat, Male / female, Experimental value, (maximum achievable concentration), Oral (repeated exposure), 14 day(s))
LD50 oral	9600 mg/kg
LD50 dermal	4800 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	14 mg/l/4h
ATE CA (oral)	500 mg/kg bodyweight
ATE CA (Dermal)	1100 mg/kg bodyweight
ATE CA (Gases)	4500 ppmv/4h
ATE CA (vapours)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: Not classified
<b>2-Butoxyethanol (111-76-2)</b>	
pH	No data available in the literature

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

<b>Naphthalene (91-20-3)</b>	
pH	No data available in the literature
<b>2,4-Di-tert-butylphenol (96-76-4)</b>	
pH	No data available in the literature
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
pH	No data available in the literature
<b>2-Ethylhexyl nitrate (27247-96-7)</b>	
pH	No data available in the literature
Serious eye damage/irritation	: Causes serious eye irritation.
<b>2-Butoxyethanol (111-76-2)</b>	
pH	No data available in the literature
<b>Naphthalene (91-20-3)</b>	
pH	No data available in the literature
<b>2,4-Di-tert-butylphenol (96-76-4)</b>	
pH	No data available in the literature
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
pH	No data available in the literature
<b>2-Ethylhexyl nitrate (27247-96-7)</b>	
pH	No data available in the literature
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
<b>2-Butoxyethanol (111-76-2)</b>	
IARC group	3 - Not classifiable
<b>Naphthalene (91-20-3)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
Reproductive toxicity	: Not classified
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
<b>Solvent naphtha (petroleum), heavy arom. (64742-94-5)</b>	
NOAEL (animal/male, F0/P)	35 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
NOAEL (animal/female, F0/P)	125 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:
<b>Naphthalene (91-20-3)</b>	
LOAEL (animal/female, F0/P)	50 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

<b>Naphthalene (91-20-3)</b>	
LOAEL (animal/female, F1)	450 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:
NOAEL (animal/female, F0/P)	120 mg/kg bodyweight Animal: rabbit, Animal sex: female, Guideline: other:
<b>Kerosine (petroleum), hydrodesulfurized (64742-81-0)</b>	
NOAEL (animal/male, F0/P)	≥ 3000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
STOT-single exposure	: Not classified
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
<b>Solvent naphtha (petroleum), heavy arom. (64742-94-5)</b>	
LOAEC (inhalation, rat, vapour, 90 days)	4.71 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
NOAEC (inhalation, rat, vapour, 90 days)	2.355 mg/l air Animal: rat, Guideline: EU Method B.29 (Sub-Chronic Inhalation Toxicity:90-Day Study)
<b>2-Butoxyethanol (111-76-2)</b>	
NOAEL (dermal, rat/rabbit, 90 days)	> 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
<b>Naphthalene (91-20-3)</b>	
LOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
LOAEC (inhalation, rat, vapour, 90 days)	0.011 mg/l air Animal: rat, Guideline: EPA OPP 82-4 (90-Day Inhalation Toxicity), Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
<b>2,4-Di-tert-butylphenol (96-76-4)</b>	
LOAEL (oral, rat, 90 days)	150 mg/kg bw/day
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, vapour, 90 days)	1.8 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

<b>Kerosine (petroleum), hydrodesulfurized (64742-81-0)</b>	
NOAEL (oral, rat, 90 days)	750 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	≥ 495 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)

<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)

<b>2-Ethylhexyl nitrate (27247-96-7)</b>	
NOAEL (dermal, rat/rabbit, 90 days)	500 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPP 82-2 (Repeated Dose Dermal Toxicity -21/28 Days)

Aspiration hazard : May be fatal if swallowed and enters airways.

<b>Winter Shield Diesel Treatment</b>	
Viscosity, kinematic	3.31 mm <sup>2</sup> /s @ 40 ° C

<b>Solvent naphtha (petroleum), heavy arom. (64742-94-5)</b>	
Viscosity, kinematic	2.235 mm <sup>2</sup> /s

<b>2-Butoxyethanol (111-76-2)</b>	
Viscosity, kinematic	3.642 mm <sup>2</sup> /s (20 °C, Not relevant)

<b>Naphthalene (91-20-3)</b>	
Viscosity, kinematic	1 mm <sup>2</sup> /s (80 °C, OECD 114: Viscosity of Liquids)

<b>2,4-Di-tert-butylphenol (96-76-4)</b>	
Viscosity, kinematic	Not applicable (solid)

<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
Viscosity, kinematic	0.843 mm <sup>2</sup> /s (20 °C)

<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
Viscosity, kinematic	2 mm <sup>2</sup> /s @ 40 ° C

<b>2-Ethylhexyl nitrate (27247-96-7)</b>	
Viscosity, kinematic	1.3 mm <sup>2</sup> /s (20 °C)

Symptoms/effects after inhalation : May cause drowsiness or dizziness. May cause shortness of breath, tightness of the chest, a sore throat and cough. Harmful if inhaled.

Symptoms/effects after skin contact : Causes skin irritation. Redness. Itching.

Symptoms/effects after eye contact : Causes serious eye irritation. Blurred vision. redness, itching, tears. Eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Ingestion may cause nausea and vomiting. Abdominal pain. Risk of lung oedema.

Chronic symptoms : Suspected of causing cancer.

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

### SECTION 12 Ecological information

#### 12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Toxic to aquatic life.

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

<b>2-Butoxyethanol (111-76-2)</b>	
LC50 - Fish [1]	1474 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Oncorhynchus mykiss</i> , Static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	1550 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	1840 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Pseudokirchneriella subcapitata</i> , Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	911 mg/l Source: ECHA
NOEC chronic fish	≥ 100 mg/l Test organisms (species): <i>Oryzias latipes</i> Duration: '14 d'
NOEC (chronic)	100 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
<b>Naphthalene (91-20-3)</b>	
LC50 - Fish [1]	0.96 ppm ( <i>Oncorhynchus gorboscha</i> , Flow-through system, Salt water, Experimental value, Lethal)
EC50 - Crustacea [1]	2.16 mg/l (Equivalent or similar to OECD 202, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	0.4 mg/l ( <i>Skeletonema costatum</i> , Literature study, Growth rate)
NOEC chronic fish	0.12 mg/l
NOEC (chronic)	0.59 mg/l Test organisms (species): <i>Daphnia pulex</i> Duration: '125 d'
NOEC chronic crustacea	3 mg/l
<b>2,4-Di-tert-butylphenol (96-76-4)</b>	
LC50 - Fish [1]	1.4 mg/l (96 h, <i>Pimephales promelas</i> , Flow-through system, Fresh water, Experimental value)
EC50 - Crustacea [1]	0.5 mg/l (OECD 202: <i>Daphnia</i> sp. Acute Immobilisation Test, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value)
ErC50 algae	0.37 mg/l
EC50 72h - Algae [1]	0.37 mg/l (OECD 201: Alga, Growth Inhibition Test, <i>Desmodesmus subspicatus</i> , Static system, Fresh water, Experimental value, Measured concentration)
EC50 72h - Algae [2]	0.13 mg/l Test organisms (species): <i>Desmodesmus subspicatus</i> (previous name: <i>Scenedesmus subspicatus</i> )
NOEC (chronic)	0.1 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
NOEC chronic algae	0.18 mg/l
LOEC (chronic)	0.34 mg/l Test organisms (species): <i>Daphnia magna</i> Duration: '21 d'
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
LC50 - Fish [1]	7.72 mg/l (96 h, <i>Pimephales promelas</i> , Flow-through system, Fresh water, Experimental value, Lethal)

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<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
EC50 - Crustacea [1]	6.14 mg/l Source: International Uniform Chemical Information Database
EC50 96h - Algae [1]	2.356 mg/l (ECOSAR, Algae, Fresh water, QSAR)
<b>Kerosine (petroleum), hydrodesulfurized (64742-81-0)</b>	
LC50 - Fish [1]	45 mg/l Source: OECD TG 203
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
LC50 - Fish [1]	> 5000 mg/l Source: IUCLID
EC50 - Crustacea [1]	> 1000 mg/l Source: IUCLID
EC50 96h - Algae [1]	> 1000 mg/l Source: IUCLID
<b>2-Ethylhexyl nitrate (27247-96-7)</b>	
LC50 - Fish [1]	2 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)
EC50 - Crustacea [1]	> 12.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	3.22 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 96h - Algae [1]	1.111 mg/l Source: ECOSAR
<b>12.2. Persistence and degradability</b>	
<b>Winter Shield Diesel Treatment</b>	
Persistence and degradability	Biodegradability in water: no data available.
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
Persistence and degradability	Not rapidly degradable
<b>Solvent naphtha (petroleum), heavy arom. (64742-94-5)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>2-Butoxyethanol (111-76-2)</b>	
Persistence and degradability	Readily biodegradable in water.
<b>Naphthalene (91-20-3)</b>	
Persistence and degradability	Readily biodegradable in the soil, Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.22 g O <sub>2</sub> /g substance
ThOD	2.99 g O <sub>2</sub> /g substance
<b>2,4-Di-tert-butylphenol (96-76-4)</b>	
Persistence and degradability	Not readily biodegradable in water.
ThOD	2.95 g O <sub>2</sub> /g substance
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
Persistence and degradability	Not readily biodegradable in water.
Chemical oxygen demand (COD)	0.44 g O <sub>2</sub> /g substance

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<b>Kerosine (petroleum), hydrodesulfurized (64742-81-0)</b>	
Persistence and degradability	Not rapidly degradable
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
Persistence and degradability	Not rapidly degradable
<b>2-Ethylhexyl nitrate (27247-96-7)</b>	
Persistence and degradability	Not readily biodegradable in water.
<b>12.3. Bioaccumulative potential</b>	
<b>Winter Shield Diesel Treatment</b>	
Bioaccumulative potential	No data available concerning bioaccumulation.
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.3 – 6 Source: IUCLID
<b>Solvent naphtha (petroleum), heavy arom. (64742-94-5)</b>	
Bioaccumulative potential	Bioaccumable.
Partition coefficient n-octanol/water (Log Pow)	2.9 – 6.1
<b>2-Butoxyethanol (111-76-2)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	0.81 (Experimental value, BASF test, 25 °C)
<b>Naphthalene (91-20-3)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	23 – 168 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
Partition coefficient n-octanol/water (Log Pow)	3.4 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
<b>2,4-Di-tert-butylphenol (96-76-4)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	128 – 436 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)
BCF - Other aquatic organisms [1]	740 (BCFBAF v3.00, Weight of evidence, QSAR)
Partition coefficient n-octanol/water (Log Pow)	4.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 23 °C)
<b>Benzene, 1,2,4-trimethyl- (95-63-6)</b>	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
BCF - Fish [1]	243 (Pimephales promelas, QSAR)
Partition coefficient n-octanol/water (Log Pow)	3.63 (Experimental value, KOWWIN)
<b>Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.9 – 6 Source: IUCLID

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

2-Ethylhexyl nitrate (27247-96-7)	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).
BCF - Fish [1]	1332 l/kg (OECD 305: Bioconcentration: Flow-Through Fish Test, Pisces, QSAR)
Partition coefficient n-octanol/water (Log Pow)	5.24 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 40 °C)

### 12.4. Mobility in soil

Winter Shield Diesel Treatment	
Ecology - soil	No additional information available.

2-Butoxyethanol (111-76-2)	
Surface tension	65.03 mN/m (20 °C, 2 g/l)
Ecology - soil	Highly mobile in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.5 – 0.9 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

Naphthalene (91-20-3)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for adsorption in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.864 (log Koc, SRC PCKOCWIN v2.0, Calculated value)

2,4-Di-tert-butylphenol (96-76-4)	
Ecology - soil	Low potential for mobility in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.40993312 – 3.84260924

Benzene, 1,2,4-trimethyl- (95-63-6)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil. May be harmful to plant growth, blooming and fruit formation.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.04 (log Koc, Calculated value)

2-Ethylhexyl nitrate (27247-96-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.75 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

### 12.5. Other adverse effects

Ozone : Not classified  
Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.

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Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
Ecological waste information	: The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself.

### SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
<b>14.1. UN Number</b>			
UN3082	NA1993	UN3082	UN3082
<b>14.2. UN Proper Shipping Name</b>			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate)	Combustible liquid, n.o.s (2-Ethylhexyl nitrate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate)	Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl nitrate)
<b>Transport document description</b>			
UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate), 9, III	NA1993 Combustible liquid, n.o.s (2-Ethylhexyl nitrate), Comb Liq, III	UN UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-Ethylhexyl nitrate), 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN UN3082 Environmentally hazardous substance, liquid, n.o.s. (2-Ethylhexyl nitrate), 9, III, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>			
9	Combustible liquid	9	9
			
<b>14.4. Packing group, if applicable</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available			

### 14.6. Special precautions for user

#### TDG

UN-No. (TDG) : UN3082

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS, 99 - (1) Mixtures of solids that are not dangerous goods and liquids or solids that are UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, may be offered for transport, handled or transported as UN3077 if there is no visible liquid when the dangerous goods are loaded into a means of containment and during transport. (2) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of less than 450 kg of UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S, or less than 450 L of UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, on a road vehicle or a railway vehicle. The dangerous goods must be contained in one or more small means of containment designed, constructed, filled, closed, secured and maintained so that under normal conditions of transport, including handling, there will be no release of the dangerous goods that could endanger public safety.
Explosive Limit and Limited Quantity Index	: 5 L
Exempt quantities (TDG)	: E1
<b>DOT</b>	
UN-No. (DOT)	: NA1993
DOT Special Provisions (49 CFR 172.102)	: 148 - Except for transportation by aircraft, when transported as a limited quantity or a consumer commodity, the maximum net capacity specified in §173.150(b)(2) of this subchapter for inner packagings may be increased to 5 L (1.3 gallons). IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

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### IMDG

Special provisions (IMDG)	: 274, 335, 375, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
Special packing provisions (IMDG)	: PP1
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG)	: A

### IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y964
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 964
PCA max net quantity (IATA)	: 450L
CAO packing instructions (IATA)	: 964
CAO max net quantity (IATA)	: 450L
Special provisions (IATA)	: A97, A158, A197, A215
ERG code (IATA)	: 9L

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78<sup>9</sup> and the IBC Code<sup>10</sup>

Not applicable

## SECTION 15 Regulatory information

### Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

### Solvent naphtha (petroleum), heavy arom. (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List)

### 2-Butoxyethanol (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

### Naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List)

### 2,4-Di-tert-butylphenol (96-76-4)

Listed on the Canadian DSL (Domestic Substances List)

### Benzene, 1,2,4-trimethyl- (95-63-6)

Listed on the Canadian DSL (Domestic Substances List)

# Winter Shield Diesel Treatment

## Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

### **Kerosine (petroleum), hydrodesulfurized (64742-81-0)**

Listed on the Canadian DSL (Domestic Substances List)

### **Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)**

Listed on the Canadian DSL (Domestic Substances List)

### **2-Ethylhexyl nitrate (27247-96-7)**

Listed on the Canadian DSL (Domestic Substances List)

### **Winter Shield Diesel Treatment**

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### **Distillates (petroleum), hydrotreated light (64742-47-8)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### **Solvent naphtha (petroleum), heavy arom. (64742-94-5)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### **2-Butoxyethanol (111-76-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### **Naphthalene (91-20-3)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### **2,4-Di-tert-butylphenol (96-76-4)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

### **Benzene, 1,2,4-trimethyl- (95-63-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### **Kerosine (petroleum), hydrodesulfurized (64742-81-0)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

### **Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

### **2-Ethylhexyl nitrate (27247-96-7)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

# Winter Shield Diesel Treatment

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### SECTION 16 Other Information

Issue date : 04/18/2025  
Revision date : 06/02/2026  
Supersedes : 04/30/2026

Data sources : Supplier's safety documents.  
Training advice : Training staff on good practice.

Full text of hazard classes and H-statements:	
H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.