SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	**Kerosene**
Other means of identification	Not available
Recommended use	Fuel
Recommended restrictions	None known.
Manufacturer information	Irving Blending & Packaging PO Box 1169 Saint John, NB E2L 4E6 CA Phone: 1.800.574.5823 Emergency Phone: 1.506.648.3060
Supplier	See above.

2. Hazards Identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
	Specific target organ toxicity, repeated exposure	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. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Use explosion-proof electrical/ventilating/lighting equipment. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use.
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 or shower. If skin irritation occurs: Get medical advice/attention. 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 exposed or concerned: Get medical advice/attention. Specific treatment (see information on this label). Take off contaminated clothing and wash it before reuse.
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	%
Stoddard solvent		8052-41-3	63
Distillates (petroleum), light hydrotreated		64742-47-8	30
Benzene, 1,2,4-trimethyl-		95-63-6	3
Nonane		111-84-2	3
Naphthalene		91-20-3	0.7
Xylene		1330-20-7	0.7
Benzene, ethyl-		100-41-4	0.3

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

4. First Aid Measures

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
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	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. 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	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
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 carbon.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Keep out of low areas. Do not breathe mist or vapor. 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). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Never return spills in original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. 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	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes, skin and clothing. Do not breathe mist or vapor. Avoid prolonged exposure. Wear appropriate personal protective equipment. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. Wash hands thoroughly after handling. When handling, do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities	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). Store locked up.

8. Exposure Controls/Personal Protection

Occupational exposure limits

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

Components	Type	Value	Form
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	TWA	123 mg/m3	
		25 ppm	
Benzene, ethyl- (CAS 100-41-4)	STEL	543 mg/m3	
		125 ppm	
	TWA	434 mg/m3	
		100 ppm	
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	200 mg/m3	Vapor.
Naphthalene (CAS 91-20-3)	STEL	79 mg/m3	
		15 ppm	
	TWA	52 mg/m3	
		10 ppm	
Nonane (CAS 111-84-2)	TWA	1050 mg/m3	
		200 ppm	
Stoddard solvent (CAS 8052-41-3)	TWA	572 mg/m3	
		100 ppm	
Xylene (CAS 1330-20-7)	STEL	651 mg/m3	
		150 ppm	
	TWA	434 mg/m3	
		100 ppm	

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

Components	Type	Value	Form
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	TWA	25 ppm	
Benzene, ethyl- (CAS 100-41-4)	TWA	20 ppm	
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	200 mg/m3	Non-aerosol.
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
Nonane (CAS 111-84-2)	TWA	200 ppm	

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

Components	Type	Value	Form
Stoddard solvent (CAS 8052-41-3)	STEL	580 mg/m3	
	TWA	290 mg/m3	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

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

Components	Type	Value
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	TWA	25 ppm
Benzene, ethyl- (CAS 100-41-4)	TWA	20 ppm
Naphthalene (CAS 91-20-3)	TWA	10 ppm
Nonane (CAS 111-84-2)	TWA	200 ppm
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

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

Components	Type	Value
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	TWA	25 ppm
Benzene, ethyl- (CAS 100-41-4)	TWA	20 ppm
Naphthalene (CAS 91-20-3)	STEL	15 ppm
	TWA	10 ppm
Nonane (CAS 111-84-2)	TWA	200 ppm
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

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

Components	Type	Value
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	TWA	123 mg/m3
		25 ppm
Benzene, ethyl- (CAS 100-41-4)	STEL	543 mg/m3
		125 ppm
	TWA	434 mg/m3
		100 ppm
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	1590 mg/m3
		400 ppm
Naphthalene (CAS 91-20-3)	STEL	79 mg/m3
		15 ppm
	TWA	52 mg/m3
		10 ppm
Nonane (CAS 111-84-2)	TWA	1050 mg/m3
		200 ppm
Stoddard solvent (CAS 8052-41-3)	TWA	525 mg/m3
		100 ppm
Xylene (CAS 1330-20-7)	STEL	651 mg/m3
		150 ppm

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

Components	Type	Value
	TWA	434 mg/m3 100 ppm

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

Components	Type	Value
Benzene, ethyl- (CAS 100-41-4)	PEL	435 mg/m3 100 ppm
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	PEL	400 mg/m3 100 ppm
Naphthalene (CAS 91-20-3)	PEL	50 mg/m3 10 ppm
Stoddard solvent (CAS 8052-41-3)	PEL	2900 mg/m3 500 ppm
Xylene (CAS 1330-20-7)	PEL	435 mg/m3 100 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	TWA	25 ppm
Benzene, ethyl- (CAS 100-41-4)	TWA	20 ppm
Naphthalene (CAS 91-20-3)	TWA	10 ppm
Nonane (CAS 111-84-2)	TWA	200 ppm
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm
Xylene (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	TWA	125 mg/m3 25 ppm
Benzene, ethyl- (CAS 100-41-4)	STEL	545 mg/m3 125 ppm
	TWA	435 mg/m3 100 ppm
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	TWA	100 mg/m3
Naphthalene (CAS 91-20-3)	STEL	75 mg/m3 15 ppm
	TWA	50 mg/m3 10 ppm
Nonane (CAS 111-84-2)	TWA	1050 mg/m3 200 ppm
Stoddard solvent (CAS 8052-41-3)	Ceiling	1800 mg/m3
	TWA	350 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Benzene, ethyl- (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
Xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

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

Exposure guidelines See above

Canada - Alberta OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

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 Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Other As required by employer code.

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

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	Colorless
Odor	Mild petroleum
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	< -65.2 °F (< -54 °C)
Initial boiling point and boiling range	329 - 399.2 °F (165 - 204 °C)
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	116.6 °F (47.0 °C)
Evaporation rate	0.1 (n-butyl acetate = 1)

Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.22 kPa @ 20C
Vapor density	5 @ 101kPa
Relative density	0.8 (@ 15C)
Solubility(ies)	Negligible
Auto-ignition temperature	440.6 °F (227 °C)
Decomposition temperature	Not available.
Viscosity	1.05 cSt (40C) 1.28 cSt @ 25C

10. Stability and Reactivity

Reactivity	May react with incompatible materials.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Information on likely routes of exposure	
Ingestion	May be fatal if swallowed and enters airways.
Inhalation	May cause damage to organs by inhalation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Information on toxicological effects	
Acute toxicity	May be fatal if swallowed and enters airways.

Components	**Species**	**Test Results**
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)		
Acute		
Dermal		
LD50	Rabbit	> 3160 mg/kg
	Rat	3440 mg/kg, 24 Hours
Inhalation		
LC50	Mouse, Rat	2000 - 9833 mg/m3, 12 Hours
	Rat	10200 mg/m3, 4 Hours
		3670 ppm, 4 hours
		3661 ppm
		18 mg/l/4h
Oral		
LD50	Rat	6000 mg/kg
		3280 mg/kg

Components	Species	Test Results
Benzene, ethyl- (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	17800 mg/kg, HSDB
		15380 mg/kg, CCOHS: Cheminfo
		17.8 ml/kg, 24 Hours
Inhalation		
LC50	Mouse	> 8000 ppm, 20 Minutes
	Rat	4000 ppm, 4 Hours, CCOHS: Cheminfo
Oral		
LD50	Rat	5460 mg/kg, HSDB
		3500 mg/kg, Sigma Aldrich
		5.5 g/kg
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)		
Acute		
Dermal		
LD50	Rabbit	> 4000 mg/kg, 24 Hours, ECHA
		> 2000 mg/kg
		> 2000 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Cat	> 6.4 mg/L, 6 Hours, ECHA
	Rat	> 7.5 mg/L, 6 Hours, ECHA
		> 6 mg/L, 4 Hours, ECHA
		> 5.7 mg/L, 4 Hours, ECHA
		> 5.3 mg/L, 4 Hours, ECHA
		> 5.3 mg/L, 4 Hours, ECHA
		> 5.2 mg/L, 4 Hours, ECHA
		> 4.6 mg/L, 4 Hours, ECHA
		> 4.5 mg/L, 4 Hours, ECHA
		> 4.3 mg/L, 4 Hours, ECHA
		> 0.1 mg/L, 8 Hours, ECHA
		5.2 mg/l/4h, LOLI
Oral		
LD50	Rat	> 20000 mg/kg, ECHA
		> 5000 mg/kg, LOLI
		> 25 ml/kg
Naphthalene (CAS 91-20-3)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
	Rat	> 16000 mg/kg, 24 Hours
		> 2500 mg/kg
Inhalation		
LC50	Rat	> 78 ppm, 4 Hours
		> 0.4 mg/l/4h
		> 0.4 mg/L, 4 Hours
Oral		
LD50	Mouse	710 mg/kg
	Rat	> 2000 mg/kg

Components	Species	Test Results
Nonane (CAS 111-84-2)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	3200 ppm, 4 Hours
		23.8 mg/L, 8 Hours
		17 mg/L, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
		>= 15000 mg/kg
Stoddard solvent (CAS 8052-41-3)		
Acute		
Dermal		
LD50	Rabbit	> 3000 mg/kg
Inhalation		
LC50	Rat	> 5500 mg/m3
Oral		
LD50	Rat	> 5000 mg/kg
Xylene (CAS 1330-20-7)		
Acute		
Dermal		
LD50	Rabbit	> 5000 ml/kg, 4 Hours, ECHA
		> 43 g/kg, HSDB
		12126 mg/kg, 24 Hours, ECHA
		>= 1700 mg/kg, LOLI
Inhalation		
LC50	Mouse	3907 mg/L, 6 Hours, HSDB
		3907 ppm, 6 Hours, HSDB
	Rat	6700 ppm, 4 Hours, ECHA
		6580 ppm, 4 Hours, ECHA
		6350 mg/L, 4 Hours, HSDB
		6350 ppm, 4 Hours, ECHA/HSDB
		6247 ppm, 4 Hours, ECHA
		5922 ppm, 4 Hours, ECHA
LCL0	Rat	8000 ppm, 4 Hours, HSDB
Oral		
LD50	Mouse	5627 mg/kg, ECHA/HSDB
		5251 mg/kg, ECHA
		1590 mg/kg, HSDB
	Rat	> 4000 mg/kg, ECHA
		6670 mg/kg, HSDB
		4300 mg/kg, ECHA/HSDB
		3523 mg/kg
		3523 - 8600 mg/kg, HSDB
		10 ml/kg, ECHA

Skin corrosion/irritation	Causes skin irritation.
Exposure minutes	Not available.
Erythema value	Not available.
Oedema value	Not available.

Serious eye damage/eye irritation Causes serious 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 This product is not expected to cause skin sensitization.

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

Carcinogenicity See below.

ACGIH Carcinogens

Benzene, ethyl- (CAS 100-41-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Naphthalene (CAS 91-20-3)	A3 Confirmed animal carcinogen with unknown relevance to humans.

Canada - Manitoba OELs: carcinogenicity

ETHYL BENZENE (CAS 100-41-4)	Confirmed animal carcinogen with unknown relevance to humans.
NAPHTHALENE (CAS 91-20-3)	Confirmed animal carcinogen with unknown relevance to humans.
XYLENE (O, M AND P ISOMERS) (CAS 1330-20-7)	Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Benzene, ethyl- (CAS 100-41-4)	Volume 77 - 2B Possibly carcinogenic to humans.
Naphthalene (CAS 91-20-3)	Volume 82 - 2B Possibly carcinogenic to humans.
Stoddard solvent (CAS 8052-41-3)	Volume 47 - 3 Not classifiable as to carcinogenicity to humans.
Xylene (CAS 1330-20-7)	Volume 47, Volume 71 - 3 Not classifiable as to carcinogenicity to humans.

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

Benzene, ethyl- (CAS 100-41-4)
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. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Teratogenicity Not available.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Causes 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.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
Benzene, 1,2,4-trimethyl- (CAS 95-63-6)			
Crustacea	EC50	Daphnia	6.14 mg/L, 48 Hours
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	7.19 - 8.28 mg/L, 96 hours
Benzene, ethyl- (CAS 100-41-4)			
Algae	IC50	Algae	4.6 mg/L, 72 Hours
Crustacea	EC50	Daphnia	2.1 mg/L, 48 Hours
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/L, 48 hours

Components		Species	Test Results
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/L, 96 hours
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 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
Xylene (CAS 1330-20-7)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	7.711 - 9.591 mg/L, 96 hours

Persistence and degradability No data is available on the degradability of this product.

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

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	UN1223
Proper shipping name	Kerosene
Hazard class	3
Packing group	III
Special provisions	144, B1, IB3, T2, TP2
Packaging exceptions	150
Packaging non bulk	203
Packaging bulk	242

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1223
Proper shipping name	KEROSENE
Hazard class	3
Packing group	III
Special provisions	91

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

Naphthalene (CAS 91-20-3)	Listed.

Canada DSL Challenge Substances: Listed substance

Naphthalene (CAS 91-20-3)	Listed.

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	1 TONNES
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	1 TONNES
Nonane (CAS 111-84-2)	1 TONNES
Stoddard solvent (CAS 8052-41-3)	1 TONNES
Xylene (CAS 1330-20-7)	1 TONNES

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Not applicable

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)

Nonane (CAS 111-84-2)	1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Benzene, ethyl- (CAS 100-41-4)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Nonane (CAS 111-84-2)	Listed.
Xylene (CAS 1330-20-7)	Listed.

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

Not listed.

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, 1,2,4-trimethyl-	95-63-6	3
Naphthalene	91-20-3	0.7
Benzene, ethyl-	100-41-4	0.3

Other federal regulations

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

Benzene, ethyl- (CAS 100-41-4)
Naphthalene (CAS 91-20-3)
Xylene (CAS 1330-20-7)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

US state regulations

US - California Hazardous Substances (Director's): Listed substance

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	Listed.
Benzene, ethyl- (CAS 100-41-4)	Listed.
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Nonane (CAS 111-84-2)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Xylene (CAS 1330-20-7)	Listed.

US - Illinois Chemical Safety Act: Listed substance

Benzene, ethyl- (CAS 100-41-4)
Naphthalene (CAS 91-20-3)
Nonane (CAS 111-84-2)
Xylene (CAS 1330-20-7)

US - Louisiana Spill Reporting: Listed substance

Benzene, ethyl- (CAS 100-41-4)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Nonane (CAS 111-84-2)	Listed.
Xylene (CAS 1330-20-7)	Listed.

US - Michigan Critical Materials Register: Parameter number

Xylene (CAS 1330-20-7)	XYLENE (ALL ISOMERS)

US - Minnesota Haz Subs: Listed substance

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	Listed.
Benzene, ethyl- (CAS 100-41-4)	Listed.
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Xylene (CAS 1330-20-7)	Listed.

US - New Jersey RTK - Substances: Listed substance

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)
Benzene, ethyl- (CAS 100-41-4)
Naphthalene (CAS 91-20-3)
Nonane (CAS 111-84-2)
Stoddard solvent (CAS 8052-41-3)
Xylene (CAS 1330-20-7)

US - North Carolina Toxic Air Pollutants: Listed substance

Xylene (CAS 1330-20-7)

US - Texas Effects Screening Levels: Listed substance

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)	Listed.
Benzene, ethyl- (CAS 100-41-4)	Listed.
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Naphthalene (CAS 91-20-3)	Listed.
Nonane (CAS 111-84-2)	Listed.
Stoddard solvent (CAS 8052-41-3)	Listed.
Xylene (CAS 1330-20-7)	Listed.

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

Benzene, ethyl- (CAS 100-41-4)

US. Massachusetts RTK - Substance List

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)
Benzene, ethyl- (CAS 100-41-4)
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)

Naphthalene (CAS 91-20-3)
Nonane (CAS 111-84-2)
Stoddard solvent (CAS 8052-41-3)
Xylene (CAS 1330-20-7)

US. New Jersey Worker and Community Right-to-Know Act

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)
Benzene, ethyl- (CAS 100-41-4)
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)
Naphthalene (CAS 91-20-3)
Xylene (CAS 1330-20-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)
Benzene, ethyl- (CAS 100-41-4)
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)
Naphthalene (CAS 91-20-3)
Nonane (CAS 111-84-2)
Stoddard solvent (CAS 8052-41-3)
Xylene (CAS 1330-20-7)

US. Rhode Island RTK

Benzene, 1,2,4-trimethyl- (CAS 95-63-6)
Benzene, ethyl- (CAS 100-41-4)
Naphthalene (CAS 91-20-3)
Nonane (CAS 111-84-2)
Stoddard solvent (CAS 8052-41-3)
Xylene (CAS 1330-20-7)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

Benzene, ethyl- (CAS 100-41-4)	Listed: June 11, 2004
Naphthalene (CAS 91-20-3)	Listed: April 19, 2002

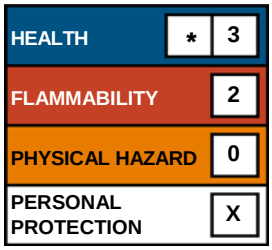
Inventory status

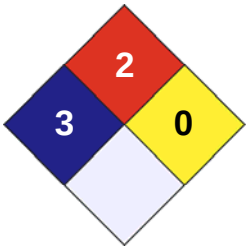
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*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





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