SAFETY DATA SHEET

1. Identification

Product identifier	**Gumout® Max Racing Octane Booster / NOS® Racing Octane Booster**
Other means of identification	
Synonyms	12012
Recommended use	Fuel Additive
Recommended restrictions	None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name	ITW Permatex Canada
Address	c/o ITW Global Brands Canada 2360 Bristol Circle, Suite 101 Oakville, ON L6H 6M5
Telephone	(905) 693-8900
E-mail	literature.canada@permatex.com

Emergency phone number	Chem-Tel	800-255-3924 .
Supplier	See above.	

2. Hazard identification

Physical hazards	Flammable liquids	Category 3
Health hazards	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2
	Germ cell mutagenicity	Category 1B
	Carcinogenicity	Category 1B
	Reproductive toxicity	Category 2
	Specific target organ toxicity following single exposure	Category 3 narcotic effects
	Specific target organ toxicity following repeated exposure	Category 1
	Aspiration hazard	Category 1
Environmental hazards	Not classified.	

Label elements

Signal word	Danger
Hazard statement	Flammable liquid and vapour. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways.

Precautionary statement

Prevention

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat. - No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Do not breathe mist or vapour.
Use only outdoors or in a well-ventilated area.
Wash thoroughly after handling.
Wear protective gloves, eye protection, and face protection.

Response

In case of fire: Use appropriate media to extinguish.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical attention. Specific treatment (see information on this label).
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE if you feel unwell.
IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
IF exposed or concerned: Get medical attention.

Storage

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

Disposal

Dispose of container in accordance with local, regional, national and international regulations.

Other hazards

None known.

Supplemental information

Exempt - Consumer product
This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, or any consumer product as defined in section 2 of the Canada Consumer Product Safety Act.

Consult the product label for special protection or precautions that have been identified for using this product under directed use conditions.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Stoddard solvent		8052-41-3	57
Kerosene		8008-20-6	29
Methyl Cyclopentadienyl Manganese Tricarbonyl		12108-13-3	5
Petroleum distillates		68476-34-6	1
Xylene		1330-20-7	0.6
Naphthalene		91-20-3	0.3
Ethylbenzene		100-41-4	0.2
Naphtha (petroleum), hydrotreated heavy		64742-48-9	0.2

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

Composition comments

*CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE if you feel unwell.

Skin contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical 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 attention.

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Harmful if inhaled.
Skin irritation. May cause redness and pain.
Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision.
Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
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. 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 and skin. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Keep away from sources of ignition. No smoking. Wear rubber gloves and safety glasses with side shields. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemical. Alcohol foam. Fog. 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. Vapours may travel considerable distance to a source of ignition and flash back.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self-contained breathing apparatus.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Extremely flammable liquid and vapour.

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 touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist or vapour. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Never return spills to original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.

7. Handling and storage

Precautions for safe handling	Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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 vapour. Avoid prolonged exposure. Avoid contact during pregnancy/while nursing. Wear appropriate personal protective equipment. Use only with adequate ventilation. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. Exposure controls/Personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
Petroleum distillates (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
Stoddard solvent (CAS 8052-41-3)	TWA	100 ppm	
Xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

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

Components	Type	Value	Form
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3	
		125 ppm	
	TWA	434 mg/m3	
		100 ppm	
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Vapour.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	TWA	1590 mg/m3	
		400 ppm	
Naphthalene (CAS 91-20-3)	STEL	79 mg/m3	
		15 ppm	
	TWA	52 mg/m3	
		10 ppm	
Petroleum distillates (CAS 68476-34-6)	TWA	100 mg/m3	
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
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
Petroleum distillates (CAS 68476-34-6)	TWA	100 mg/m3	Vapour and aerosol.
Stoddard solvent (CAS 8052-41-3)	STEL	580 mg/m3	
	TWA	290 mg/m3	

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

Components	Type	Value	Form
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	Form
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Naphthalene (CAS 91-20-3)	TWA	10 ppm	
Petroleum distillates (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
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	Form
Ethylbenzene (CAS 100-41-4)	TWA	20 ppm	
Kerosene (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3	
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	TWA	525 mg/m3	
Naphthalene (CAS 91-20-3)	STEL	15 ppm	
	TWA	10 ppm	
Petroleum distillates (CAS 68476-34-6)	TWA	100 mg/m3	Inhalable fraction and vapor.
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 occupational health and safety)

Components	Type	Value
Ethylbenzene (CAS 100-41-4)	STEL	543 mg/m3
		125 ppm
	TWA	434 mg/m3
		100 ppm
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	TWA	0.2 mg/m3
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	TWA	1590 mg/m3
		400 ppm
Naphthalene (CAS 91-20-3)	STEL	79 mg/m3
		15 ppm
	TWA	52 mg/m3
		10 ppm
Stoddard solvent (CAS 8052-41-3)	TWA	525 mg/m3

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components	Type	Value
		100 ppm
Xylene (CAS 1330-20-7)	STEL	651 mg/m3 150 ppm
	TWA	434 mg/m3 100 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Ethylbenzene (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 Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

Canada - Alberta OELs: Skin designation

Kerosene (CAS 8008-20-6)	Can be absorbed through the skin.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Kerosene (CAS 8008-20-6)	Can be absorbed through the skin.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
Petroleum distillates (CAS 68476-34-6)	Can be absorbed through the skin.
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Kerosene (CAS 8008-20-6)	Can be absorbed through the skin.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
Petroleum distillates (CAS 68476-34-6)	Can be absorbed through the skin.
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Kerosene (CAS 8008-20-6)	Can be absorbed through the skin.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
Petroleum distillates (CAS 68476-34-6)	Can be absorbed through the skin.
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Kerosene (CAS 8008-20-6)	Can be absorbed through the skin.
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
Petroleum distillates (CAS 68476-34-6)	Can be absorbed through the skin.
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Kerosene (CAS 8008-20-6)	Can be absorbed through the skin.

Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)	Can be absorbed through the skin.
Naphthalene (CAS 91-20-3)	Can be absorbed through the skin.
Petroleum distillates (CAS 68476-34-6)	Can be absorbed through the skin.
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	Can be absorbed through the skin.

Appropriate engineering controls Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Face shield or chemical goggles.

Skin protection

Hand protection Nitrile gloves are recommended. 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 practices. 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

Colour Amber

Odour Solvent

Odour threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range 100 - 305 °C (212 - 581 °F)

Flash point 43.0 °C (109.4 °F) Pensky-Martens Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Not available.

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.

Vapour pressure Not available.

Vapour density Heavier than air

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Flash point class Combustible II

Specific gravity 0.83

10. Stability and reactivity

Reactivity Not available.

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions	Hazardous polymerisation does not occur.
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	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Harmful if inhaled. Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	May be fatal if swallowed and enters airways.
Symptoms related to the physical, chemical and toxicological characteristics	Skin irritation. May cause redness and pain. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

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

Components	Species	Test Results
Ethylbenzene (CAS 100-41-4)		
Acute		
Dermal		
LD50	Rabbit	17800 mg/kg, HSDB
		15380 mg/kg, CCOHS: Cheminfo
		17.8 ml/kg, 24 Hours, ECHA
Inhalation		
LC50	Mouse	> 8000 ppm, 20 Minutes, ECHA
	Rat	4000 ppm, 4 Hours, CCOHS: Cheminfo
Oral		
LD50	Rat	5460 mg/kg, HSDB
		3500 mg/kg, Sigma Aldrich
		5.5 g/kg, ECHA/HSDB
Kerosene (CAS 8008-20-6)		
Acute		
Dermal		
LD50	Rabbit	> 4000 mg/kg, 24 Hours, ECHA
		> 2000 mg/kg, ECHA
		> 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

Components	Species	Test Results
Oral		
LD50	Rat	> 20000 mg/kg, ECHA
		> 5000 mg/kg, ECHA
Methyl Cyclopentadienyl Manganese Tricarbonyl (CAS 12108-13-3)		
Acute		
Dermal		
LD50	Rabbit	795 mg/kg, 24 Hours, ECHA
		420 mg/kg, 24 Hours, ECHA
		196.7 mg/kg, 24 Hours, ECHA
		140 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Mouse	0.1 mg/L, 4 Hours, HSDB
	Rat	0.2 mg/L, 1 Hours, ECHA
		0.1 mg/L, 4 Hours, ECHA
		0.1 mg/L, 1 Hours, ECHA
		0.1 mg/L, 4 Hours, HSDB
Oral		
LD50	Mouse	251.9 mg/kg, HSDB
		230 mg/kg, ECHA
	Rat	58 mg/kg, ECHA
		51.8 mg/kg, ECHA
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)		
Acute		
Dermal		
LD50	Rabbit	> 6000 mg/kg, 24 Hours, ECHA
		> 3750 mg/kg, 24 Hours, ECHA
		> 3000 mg/kg, 24 Hours, ECHA
		> 2000 mg/kg, ECHA
		> 2000 mg/kg, 24 Hours, ECHA
		> 1900 mg/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	> 8530 mg/m3, 4 Hours, ECHA
		> 7970 mg/m3, 4 Hours, ECHA
		> 7630 mg/m3, 4 Hours, ECHA
		> 7300 mg/m3, 4 Hours, ECHA
		> 5830 mg/m3, 4 Hours, ECHA
		> 5740 mg/m3, 4 Hours, ECHA
		> 5610 mg/m3, 4 Hours, ECHA
		> 5470 mg/m3, 4 Hours, ECHA
		> 5300 mg/m3, 4 Hours, ECHA
		> 5280 mg/m3, 4 Hours, ECHA
		> 5260 mg/m3, 4 Hours, ECHA
		> 5250 mg/m3, 4 Hours, ECHA
		> 5240 mg/m3, 4 Hours, ECHA
		> 5220 mg/m3, 4 Hours, ECHA
		> 5200 mg/m3, 4 Hours, ECHA
		> 5170 mg/m3, 4 Hours, ECHA
		> 5160 mg/m3, 4 Hours, ECHA

Components	Species	Test Results
		> 5100 mg/m3, 4 Hours, ECHA
		> 5080 mg/m3, 4 Hours, ECHA
		> 5050 mg/m3, 4 Hours, ECHA
		> 5040 mg/m3, 4 Hours, ECHA
		> 5020 mg/m3, 4 Hours, ECHA
		> 5000 mg/m3, 4 Hours, ECHA
		> 4980 mg/m3, 4 Hours, ECHA
		> 4970 mg/m3, 4 Hours, ECHA
		> 4420 mg/m3, 4 Hours, ECHA
		> 5.4 mg/L, 4 Hours, ECHA
		> 5.1 mg/L, 4 Hours, ECHA
		> 5.1 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA
		>= 5060 mg/m3, 4 Hours, ECHA
Oral		
LD50	Rat	> 7000 mg/kg, ECHA
		> 6000 mg/kg, ECHA
		> 5570 mg/kg, ECHA
		> 5200 mg/kg, ECHA
		> 5000 mg/kg, ECHA
		> 4800 mg/kg, ECHA
		> 4500 mg/kg, ECHA
		> 25 ml/kg, HSDB
		14063 mg/kg, ECHA
		6620 mg/kg, ECHA
		5800 mg/kg, ECHA
		5390 mg/kg, ECHA
		4820 mg/kg, ECHA
Naphthalene (CAS 91-20-3)		
Acute		
Dermal		
LD50	Rat	> 16000 mg/kg, 24 Hours, ECHA
		> 2500 mg/kg, ECHA
Inhalation		
LC50	Rat	> 78 ppm, 4 Hours, ECHA
		> 0.4 mg/L, 4 Hours, ECHA
Oral		
LD50	Mouse	710 mg/kg, ECHA
Petroleum distillates (CAS 68476-34-6)		
Acute		
Dermal		
LD50	Rabbit	> 1800 mg/kg, ECHA
		> 5 ml/kg, ECHA
		> 5 ml/kg, 24 Hours, ECHA
Inhalation		
LC50	Rat	> 5.3 mg/L, 4 Hours, ECHA
		> 5 mg/L, 4 Hours, ECHA

Components	Species	Test Results
		> 4.8 mg/L, 4 Hours, ECHA
		> 1.7 mg/L, 4 Hours, ECHA
		7640 mg/m3, 4 Hours, ECHA
		4600 mg/m3, 4 Hours, ECHA
		6.2 mg/L, 4 Hours, ECHA
		6 mg/L, 4 Hours, ECHA
		5.9 mg/L, 4 Hours, ECHA
		5.8 mg/L, 4 Hours, ECHA
		5.4 mg/L, 4 Hours, ECHA
		5.3 mg/L, 4 Hours, ECHA
		4.1 mg/L, 4 Hours, ECHA
		3.6 mg/L, 4 Hours, ECHA
Oral		
LD50	Rat	21.1 ml/kg, ECHA
		9 ml/kg, ECHA
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
Inhalation		
LC50	Mouse	3907 ppm, 6 Hours, HSDB
		3907 mg/L, 6 Hours, HSDB
	Rat	6700 ppm, 4 Hours, ECHA
		6580 ppm, 4 Hours, ECHA
		6350 ppm, 4 Hours, ECHA/HSDB
		6350 mg/L, 4 Hours, HSDB
		6247 ppm, 4 Hours, ECHA
		5922 ppm, 4 Hours, ECHA
Oral		
LD50	Mouse	5627 mg/kg, ECHA/HSDB
		5251 mg/kg, ECHA
	Rat	> 4000 mg/kg, ECHA
		6670 mg/kg, HSDB
		4300 mg/kg, ECHA/HSDB
		3523 mg/kg, ECHA
		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 sensitisation	
Respiratory sensitisation	Not available.
Skin sensitisation	This product is not expected to cause skin sensitisation.
Germ cell mutagenicity	May cause genetic defects.
Carcinogenicity	May cause cancer.

ACGIH Carcinogens

Ethylbenzene (CAS 100-41-4)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Kerosene (CAS 8008-20-6)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Naphthalene (CAS 91-20-3)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Nitromethane (CAS 75-52-5)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Petroleum distillates (CAS 68476-34-6)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	A3 Confirmed animal carcinogen with unknown relevance to humans.
Xylene (CAS 1330-20-7)	A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Ethylbenzene (CAS 100-41-4)	Confirmed animal carcinogen with unknown relevance to humans.
Kerosene (CAS 8008-20-6)	Confirmed animal carcinogen with unknown relevance to humans.
Naphthalene (CAS 91-20-3)	Confirmed animal carcinogen with unknown relevance to humans.
Nitromethane (CAS 75-52-5)	Confirmed animal carcinogen with unknown relevance to humans.
Petroleum distillates (CAS 68476-34-6)	Confirmed animal carcinogen with unknown relevance to humans.
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	Confirmed animal carcinogen with unknown relevance to humans.
Xylene (CAS 1330-20-7)	Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Ethylbenzene (CAS 100-41-4)	Volume 77 - 2B Possibly carcinogenic to humans.
Naphthalene (CAS 91-20-3)	Volume 82 - 2B Possibly carcinogenic to humans.
Nitromethane (CAS 75-52-5)	Volume 77 - 2B Possibly carcinogenic to humans.
Petroleum distillates (CAS 68476-34-6)	Volume 45 - 3 Not classifiable as to carcinogenicity 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.

Reproductive toxicity	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure	Narcotic effects.
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 or repeated overexposure can cause liver and kidney damage.
Further information	Not available.

12. Ecological information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
Ethylbenzene (CAS 100-41-4)			
Algae	IC50	Algae	4.6 mg/L, 72 Hours
Crustacea	EC50	Daphnia	2.1 mg/L, 48 Hours

Components		Species	Test Results
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	1.37 - 4.4 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	7.5 - 11 mg/L, 96 hours
Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	2.7 - 5.1 mg/L, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	8.8 mg/L, 96 hours
			8.8 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

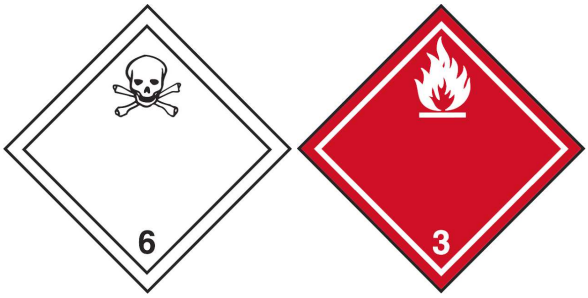
General Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN2929
Proper shipping name	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S
Technical name	METHYL CYCLOPENTADIENYL MANGANESE TRICARBONYL
Technical name	Kerosene
Hazard class	6.1(PGI, II)
Subsidiary hazard class	3
Packing group	II
Special provisions	16
Packaging exceptions	Limited quantity 0.1L

TDG



15. Regulatory information

Canadian federal regulations

Exempt- consumer product
This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, or any consumer product as defined in section 2 of the Canada Consumer Product Safety Act.

Canada CEPA Schedule I: Listed substance

Naphthalene (CAS 91-20-3)	Listed.

Canada DSL Challenge Substances: Listed substance

Naphthalene (CAS 91-20-3)	Listed
Nitromethane (CAS 75-52-5)	Listed

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

Naphtha (petroleum), hydrotreated heavy (CAS 64742-48-9)	1 TONNES
Solvent naphtha (petroleum), heavy aromatic (CAS 64742-94-5)	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 status Controlled

International regulations

WHMIS classification Exempt - Consumer product

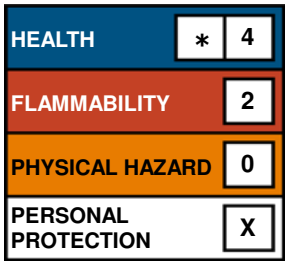
Inventory status

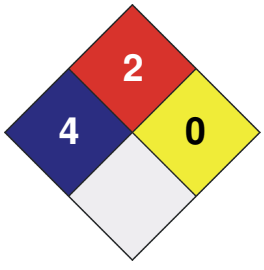
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

*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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Version No. 02

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

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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