Safety Data Sheet

Stock Number: MAG61572
Date of the latest revision of the safety data sheet: 27-02-2025
Supercedes: 03-05-2024

MAG 1 MOTOR FLUSH ENGINE OIL ADDITIVE 12/12OZ

1 Identification

Product Identifier: **MAG 1 MOTOR FLUSH ENGINE OIL ADDITIVE 12/12OZ**
Stock Number: MAG61572
Other means of identification:

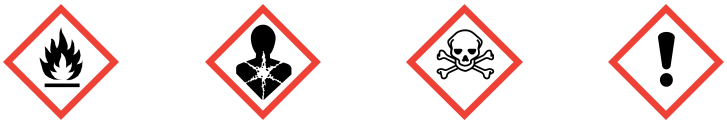
Other means of identification:
Synonyms: No data available

Recommended use and restrictions on use:
Recommended use: Motor Flush
Restrictions on use: Uses other than those described above
Initial Supplier Identifier: Highline Warren LLC
8700 Trail Lake Drive West
Suite 300
Memphis, TN 38125
Tel No.: +01 (901) 437-8615
Email: sds@highlinewarren.com
Emergency telephone number and any restrictions on the use of that number, if applicable: CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

2 Hazard identification

Classification of the hazardous product:
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1A
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1
Aspiration Hazard Category 1
Skin Corrosion/Irritation Category 2
Reproductive Toxicity Category 2
Flammable Liquid Category 3
Acute Toxicity - Inhalation Dust / Mist Category 3
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3 Respiratory Tract Irritation
Specific Target Organ Toxicity Single Exposure Category 3

GHS Hazard class symbols:



Signal word: Danger
Hazard statements: Flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. Toxic if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause genetic defects.

May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

Prevention: 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. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use an appropriate extinguisher (see section 5) to extinguish.

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

Disposal: Dispose of contents/container to a suitable disposal site in accordance with local/national/international regulations.

Other hazards known to the supplier with respect to the hazardous product:

Physical hazards not otherwise classified None known.

Health hazards not otherwise classified None known.

3 Composition/information on ingredients

Chemical Name	Common name and synonyms	CAS registry number and any unique identifiers	Concentration
Toluene	No data available	108-88-3	0.1 - 0.5
Ethylbenzene	No data available	100-41-4	0.1 - 0.5
Benzene	No data available	71-43-2	0.1 - 0.5
Xylene	No data available	1330-20-7	0.5 - 1

Naphthalene	No data available	91-20-3	0.5 - 1.5
Light hydrocracked distillate	No data available	64741-77-1	7 - 13
Kerosine, petroleum, hydrodesulfurized	No data available	64742-81-0	10 - 30
Kerosene	No data available	8008-20-6	30 - 60
Distillates, petroleum, hydrodesulfurized middle	No data available	64742-80-9	30 - 60
Distillates, petroleum, hydrodesulfurized light catalytic cracked	No data available	68333-25-5	30 - 60
Distillates, petroleum, straight-run middle	No data available	64741-44-2	30 - 60
Distillates, petroleum, solvent-dewaxed heavy paraffinic	No data available	64742-65-0	30 - 60

4 First-aid measures

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eye contact: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Remove contaminated clothing immediately. Wash area of contact thoroughly with soap and water. Get medical attention if irritation persists. High pressure skin injections are serious medical emergencies. Get immediate medical attention. Thermal burns require immediate medical attention.

Ingestion: Seek medical attention immediately or call the Poison control center. Do not induce vomiting. If patient is fully conscious, give up to two glasses of water. Provide medical care provider with this SDS.

The most important symptoms and effects, whether acute or delayed: Drowsiness. Dizziness. Eye irritation. May cause mild skin irritation. Severe pulmonary irritation

An indication of immediate medical attention and special treatment needed, if necessary: In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption. Consideration should be given to the use of an endotracheal tube, to prevent aspiration. Individuals intoxicated by middle distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function. Positive pressure ventilation may be necessary. After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary edema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic, and renal impairment. Individuals with chronic pulmonary disease will be more

seriously impaired, and recovery from inhalation exposure may be complicated. Avoid emesis unless a large amount has been ingested or it contains a toxic additive. Gastric lavage after endotracheal intubation should be reserved for a patient who requires GI decontamination and is lethargic or obtunded. Safe use of activated charcoal and cathartic should be considered if ingested. Mineral oil cathartics should not be given to patients. Saline cathartics or sorbatol is preferrable. In case of skin injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss. Aspiration during swallowing or vomiting may severely damage the lungs.

5 Fire-fighting measures

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Unsuitable extinguishing media: No data available

Specific hazards arising from the hazardous product, such as the nature of any hazardous combustion: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Hydrocarbons, Nitrogen containing gases, Smoke, Sulfur containing gases

Special protective equipment and precautions for firefighters: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential for hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: No health affects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

Methods and materials for containment and cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material. Gather and store in a sealed container pending a waste disposal evaluation.

7 Handling and storage

Precautions for safe handling: Mildly irritating material. Avoid unnecessary exposure.

Conditions for safe storage: Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents

8 Exposure controls/personal protection

Control parameters, including occupational exposure limit values or biological limit values and the source of those values:

Canada – Alberta – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	10 mg/m3 STEL	No data available
Kerosene	200 mg/m3 TWA (as total Hydrocarbon vapour)	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (as total Hydrocarbon vapour)	No data available	No data available
Naphthalene	10 ppm TWA; 52 mg/m3 TWA	15 ppm STEL; 79 mg/m3 STEL	No data available
Xylene	100 ppm TWA; 434 mg/m3 TWA	150 ppm STEL; 651 mg/m3 STEL	No data available
Toluene	50 ppm TWA; 188 mg/m3 TWA	No data available	No data available
Benzene	0.5 ppm TWA; 1.6 mg/m3 TWA	2.5 ppm STEL; 8 mg/m3 STEL	No data available
Ethylbenzene	100 ppm TWA; 434 mg/m3 TWA	125 ppm STEL; 543 mg/m3 STEL	No data available
Biphenyl	0.2 ppm TWA; 1.3 mg/m3 TWA	No data available	No data available

Canada – British Columbia– Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	No data available	No data available	No data available
Kerosene	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, as	No data available	No data available

	total Hydrocarbon vapour)		
Kerosine, petroleum, hydrodesulfurized	No data available	No data available	No data available
Naphthalene	10 ppm TWA	No data available	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available
Toluene	20 ppm TWA	No data available	No data available
Benzene	0.5 ppm TWA	2.5 ppm STEL	No data available
Ethylbenzene	20 ppm TWA	No data available	No data available
Biphenyl	0.2 ppm TWA	No data available	No data available

Canada – Manitoba – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	No data available	No data available
Kerosene	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)	No data available	No data available
Naphthalene	10 ppm TWA	No data available	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available
Toluene	20 ppm TWA	No data available	No data available
Benzene	0.5 ppm TWA	2.5 ppm STEL	No data available
Ethylbenzene	20 ppm TWA	No data available	No data available
Biphenyl	0.2 ppm TWA	No data available	No data available

Canada – New Brunswick – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits -	Occupational Exposure Limits -	Occupational Exposure Limits -

	TWAs	STELs	Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	10 mg/m3 STEL	No data available
Kerosene	No data available	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	No data available	No data available	No data available
Naphthalene	10 ppm TWA; 52 mg/m3 TWA	15 ppm STEL; 79 mg/m3 STEL	No data available
Xylene	100 ppm TWA; 434 mg/m3 TWA	150 ppm STEL; 651 mg/m3 STEL	No data available
Toluene	50 ppm TWA; 188 mg/m3 TWA	No data available	No data available
Benzene	0.5 ppm TWA; 1.6 mg/m3 TWA	2.5 ppm STEL; 8 mg/m3 STEL	No data available
Ethylbenzene	100 ppm TWA; 434 mg/m3 TWA	125 ppm STEL; 543 mg/m3 STEL	No data available
Biphenyl	0.2 ppm TWA; 1.3 mg/m3 TWA	No data available	No data available

Canada – Newfoundland & Labrador – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	No data available	No data available
Kerosene	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)	No data available	No data available
Naphthalene	10 ppm TWA	No data available	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available

Toluene	20 ppm TWA	No data available	No data available
Benzene	0.5 ppm TWA	2.5 ppm STEL	No data available
Ethylbenzene	20 ppm TWA	No data available	No data available
Biphenyl	0.2 ppm TWA	No data available	No data available

Canada – Northwest Territories – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	10 mg/m3 STEL	No data available
Kerosene	200 mg/m3 TWA (as total Hydrocarbon vapour, listed under Kerosene/Jet fuels)	250 mg/m3 STEL (as total Hydrocarbon vapour, listed under Kerosene/Jet fuels)	No data available
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (as total Hydrocarbon vapour, listed under Kerosene/Jet fuels)	250 mg/m3 STEL (as total Hydrocarbon vapour, listed under Kerosene/Jet fuels)	No data available
Naphthalene	10 ppm TWA	15 ppm STEL	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available
Toluene	50 ppm TWA	60 ppm STEL	No data available
Benzene	No data available	No data available	No data available
Ethylbenzene	100 ppm TWA	125 ppm STEL	No data available
Biphenyl	0.2 ppm TWA	0.6 ppm STEL	No data available

Canada – Nova Scotia – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	No data available	No data available
Kerosene	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (application restricted to conditions in which	No data available	No data available

	there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)		
Naphthalene	10 ppm TWA	No data available	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available
Toluene	20 ppm TWA	No data available	No data available
Benzene	0.5 ppm TWA	2.5 ppm STEL	No data available
Ethylbenzene	20 ppm TWA	No data available	No data available
Biphenyl	0.2 ppm TWA	No data available	No data available

Canada – Nunavut – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	10 mg/m3 STEL	No data available
Kerosene	200 mg/m3 TWA (as total Hydrocarbon vapour, listed under Kerosene/Jet fuels)	250 mg/m3 STEL (as total Hydrocarbon vapour, listed under Kerosene/Jet fuels)	No data available
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (as total Hydrocarbon vapour, listed under Kerosene/Jet fuels)	250 mg/m3 STEL (as total Hydrocarbon vapour, listed under Kerosene/Jet fuels)	No data available
Naphthalene	10 ppm TWA	15 ppm STEL	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available
Toluene	50 ppm TWA	60 ppm STEL	No data available
Benzene	No data available	No data available	No data available
Ethylbenzene	100 ppm TWA	125 ppm STEL	No data available
Biphenyl	0.2 ppm TWA	0.6 ppm STEL	No data available

Canada – Ontario – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	No data available	No data available
Kerosene	200 mg/m3 TWA (restricted to conditions where there is negligible	No data available	No data available

	aerosol exposure, as total hydrocarbon vapour, listed under Kerosene/Jet fuels)		
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (restricted to conditions where there is negligible aerosol exposure, as total hydrocarbon vapour, listed under Kerosene/Jet fuels)	No data available	No data available
Naphthalene	10 ppm TWA	No data available	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available
Toluene	20 ppm TWA	No data available	No data available
Benzene	0.5 ppm TWA (applies to workplaces to which the designated substances regulation does not apply); 0.5 ppm TWA (designated substances regulation)	2.5 ppm STEL (designated substances regulation); 2.5 ppm STEL (applies to workplaces to which the designated substances regulation does not apply)	No data available
Ethylbenzene	20 ppm TWA	No data available	No data available
Biphenyl	0.2 ppm TWA	No data available	No data available

Canada – Prince Edward Island – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	No data available	No data available
Kerosene	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (application restricted to conditions in which	No data available	No data available

	there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)		
Naphthalene	10 ppm TWA	No data available	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available
Toluene	20 ppm TWA	No data available	No data available
Benzene	0.5 ppm TWA	2.5 ppm STEL	No data available
Ethylbenzene	20 ppm TWA	No data available	No data available
Biphenyl	0.2 ppm TWA	No data available	No data available

Canada – Quebec – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAEVs	Occupational Exposure Limits - STEVs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	No data available	No data available	No data available
Kerosene	No data available	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	No data available	No data available	No data available
Naphthalene	10 ppm TWAEV	No data available	No data available
Xylene	100 ppm TWAEV; 434 mg/m3 TWAEV	150 ppm STEV; 651 mg/m3 STEV	No data available
Toluene	50 ppm TWAEV; 188 mg/m3 TWAEV	No data available	No data available
Benzene	1 ppm TWAEV; 3 mg/m3 TWAEV	5 ppm STEV; 15.5 mg/m3 STEV	No data available
Ethylbenzene	20 ppm TWAEV	No data available	No data available
Biphenyl	0.2 ppm TWAEV; 1.3 mg/m3 TWAEV	No data available	No data available

Canada – Saskatchewan – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	10 mg/m3 STEL	No data available
Kerosene	200 mg/m3 TWA (as total hydrocarbon vapour)	250 mg/m3 STEL (as total hydrocarbon vapour)	No data available
Kerosine, petroleum, hydrodesulfurized	200 mg/m3 TWA (as total hydrocarbon	250 mg/m3 STEL (as total hydrocarbon	No data available

	vapour, listed under Kerosene/Jet fuels)	vapour, listed under Kerosene/Jet fuels)	
Naphthalene	10 ppm TWA	15 ppm STEL	No data available
Xylene	100 ppm TWA	150 ppm STEL	No data available
Toluene	50 ppm TWA	60 ppm STEL	No data available
Benzene	No data available	No data available	No data available
Ethylbenzene	100 ppm TWA	125 ppm STEL	No data available
Biphenyl	0.2 ppm TWA	0.6 ppm STEL	No data available

Canada - Yukon – Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limits - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	10 mg/m3 STEL	No data available
Kerosene	No data available	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	No data available	No data available	No data available
Naphthalene	10 ppm TWA; 50 mg/m3 TWA	15 ppm STEL; 75 mg/m3 STEL	No data available
Xylene	100 ppm TWA; 435 mg/m3 TWA	150 ppm STEL; 650 mg/m3 STEL	No data available
Toluene	100 ppm TWA; 375 mg/m3 TWA	150 ppm STEL; 560 mg/m3 STEL	No data available
Benzene	No data available	No data available	10 ppm Ceiling; 32 mg/m3 Ceiling
Ethylbenzene	100 ppm TWA; 435 mg/m3 TWA	125 ppm STEL; 545 mg/m3 STEL	No data available
Biphenyl	0.2 ppm TWA; 1 mg/m3 TWA	0.2 ppm STEL; 1 mg/m3 STEL; 0.6 ppm STEL (regulated under Diphenyl); 3 mg/m3 STEL (regulated under Diphenyl)	No data available

Chemical Name	OSHA PEL	ACGIH TLV-TWA	ACGIH STEL	IDLH
Distillates, petroleum, solvent-dewaxed heavy paraffinic	5 mg/m3 TWA	5 mg/m3 TWA	10 mg/m3 STEL	No data available
Kerosene	No PEL	200 mg/m3 TWA (application restricted to conditions in which there are	No STEL	No data available

		negligible aerosol exposures, total hydrocarbon vapor, listed under Kerosene/Jet fuels)		
Kerosine, petroleum, hydrodesulfurized	No PEL	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor, listed under Kerosene/Jet fuels)	No STEL	No data available
Naphthalene	10 ppm TWA; 50 mg/m3 TWA	10 ppm TWA	No STEL	250 ppm IDLH
Xylene	100 ppm TWA; 435 mg/m3 TWA	100 ppm TWA	150 ppm STEL	No data available
Toluene	200 ppm TWA	20 ppm TWA	No STEL	500 ppm IDLH
Benzene	10 ppm TWA (applies to industry segments exempt from the benzene standard at 29 CFR 1910.1028); 1 ppm TWA	0.5 ppm TWA	2.5 ppm STEL	500 ppm IDLH
Ethylbenzene	100 ppm TWA; 435 mg/m3 TWA	20 ppm TWA	No STEL	800 ppm IDLH (10% LEL)
Biphenyl	0.2 ppm TWA; 1 mg/m3 TWA	0.2 ppm TWA	No STEL	100 mg/m3 IDLH

Appropriate engineering controls: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Individual protection measures, such as personal protective equipment:

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the

	preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Respirator Type(s):	If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Eye and face protection:	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Hand protection:	Nitrile, Neoprene
General hygiene conditions:	Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

9 Physical and chemical properties

Physical state:	Liquid
Colour:	Amber
Odour:	Moderate
Odour threshold:	Not determined
pH:	No data available
Melting point (°C):	No data available
Freezing point (°C):	No data available
Initial boiling point and boiling range (°C):	No data available
Flash point (°C):	51
Evaporation rate:	No data available
Flammability, in the case of solids and gases:	No data available
Upper flammable or explosive limit, % in air:	Not established
Lower flammable or explosive limit, % in air:	Not established
Vapour pressure:	= 10 - 210 MMHG > 3 MMHG
Vapour density:	No data available
Relative density:	0.86
Solubility:	Negligible; 0-1%
Partition coefficient — n-octanol/water:	No data available

Auto-ignition temperature (°C):	No data available
Decomposition temperature (°C):	Not determined
Viscosity:	7.92

10 Stability and reactivity

Reactivity:	There are no known reactivity hazards associated with this product.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None expected under standard conditions of storage.
Conditions to avoid, including static discharge, shock or vibration:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	Sulfur containing gases, Smoke, Nitrogen containing gases, Hydrocarbons, Carbon monoxide, Carbon dioxide

11 Toxicological information

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	Eye contact, Ingestion, Inhalation, Skin contact
Symptoms related to the physical, chemical and toxicological characteristics:	Drowsiness. Dizziness. Eye irritation. May cause mild skin irritation. Severe pulmonary irritation

Immediate effects from short term exposure:

Inhalation:	Toxic! Can cause systemic damage (see "Target Organs"). Respiratory failure is possible at high doses. Likely to be moderately toxic based on animal data.
Skin Contact:	Contact may result in defatting, redness, itching, inflammation, cracking, and possible secondary infection. High pressure skin injections are Serious Medical Emergencies. Injury may not appear serious at first; within a few hours, tissue will become swollen, discolored and extremely painful (see Notes to Doctor). Contact with heated material may cause thermal burns. This material is likely to be moderately irritating to skin based on animal data.
Eye Contact:	This material is likely to be non-irritating to eyes based on animal data.
Ingestion:	May be harmful if swallowed. Estimated to be > 5.0 g/kg.
Sensitization:	No data available to indicate product or components may be a skin sensitizer.

Delayed and chronic effects from long term exposure:

Carcinogenicity:	Contains a known human carcinogen.
Reproductive and Developmental Toxicity:	Contains a substance that is a possible reproductive system hazard based on animal studies at doses that could be encountered in the workplace. Possible reproductive hazard.

Mutagenicity: Mutagenic affects in humans may occur.

STOT-single exposure: Classification has been based on toxicological information of the components in Section 3.

STOT-repeated exposure: Classification has been based on toxicological information of the components in Section 3.

Aspiration hazard: Classification has been based on toxicological information of the components in Section 3.

Numerical measures of toxicity, including ATEs

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates, petroleum, hydrodesulfurized middle	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat 4.6 mg/L
Distillates, petroleum, hydrodesulfurized light catalytic cracked	Oral LD50 Rat 3200 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat 4.65 mg/L
Distillates, petroleum, straight-run middle	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat 1.78 mg/L
Distillates, petroleum, solvent-dewaxed heavy paraffinic	Oral LD50 Rat > 15000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 (4h) Rat 5000 MG/M3
Kerosene	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat > 5.28 mg/L
Kerosine, petroleum, hydrodesulfurized	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat > 5200 MG/M3
Light hydrocracked distillate	Oral LD50 Rat 3200 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	Inhalation LC50 (4h) Rat 4.65 mg/L
Naphthalene	Oral LD50 Rat 490 mg/kg	Dermal LD50 Rabbit 1120 mg/kg	Inhalation LC50 (1h) Rat > 340 MG/M3
Xylene	Oral LD50 Rat 4300 mg/kg	Dermal LD50 Rabbit > 4350 mg/kg	Inhalation LC50 (4h) Rat 29.08 mg/L
Toluene	Oral LD50 Rat 2600 mg/kg	Dermal LD50 Rabbit 12000 mg/kg	Inhalation LC50 (4h) Rat 12.5 mg/L
Ethylbenzene	Oral LD50 Rat 3500 mg/kg	Dermal LD50 Rabbit 15400 mg/kg	Inhalation LC50 (4h) Rat 17.4 mg/L
Benzene	Oral LD50 Rat > 930 mg/kg	Dermal LD50 Rabbit > 8200 mg/kg	Inhalation LC50 (4h) Rat 13050 - 14380 ppm

Classification has been based on toxicological information of the components in Section 3.

12 Ecological information

Ecotoxicity (aquatic and terrestrial, if available): Severe ecological hazard. This product may be toxic to plants and/or wildlife.

Ecological Toxicity Data:

Chemical Name	CAS registry number and any unique identifiers	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
Biphenyl	92-52-4	EC50 (48h) Daphnia magna 0.63 - 0.85 mg/L	No data available	LC50 (96h) Rainbow Trout 1.4 - 1.6 mg/L LC50 (96h) Lepomis macrochirus (Bluegill) 4.3 - 5.1 mg/L LC50 (96h) Pimephales promelas (Fathead Minnow) 1.17 - 1.81 mg/L LC50 (96h) Pimephales promelas (Fathead Minnow) 1.65 - 2.29 mg/L
Toluene	108-88-3	LC50 (48h) Daphnia magna 5.46 - 9.83 mg/L	Aquatic ERC50 (96h) > 433 mg/L	LC50 (96h) 15.22 - 19.05 mg/L
Benzene	71-43-2	EC50 (48h) Daphnia magna 8.76 - 15.6 mg/L	Aquatic ERC50 (72h) 29 mg/L	LC50 (96h) Rainbow Trout 5.3 mg/L
Ethylbenzene	100-41-4	EC50 (48h) Daphnia magna 1.8 - 2.4 mg/L	Aquatic ERC50 (72h) 4.6 mg/L	LC50 (96h) Rainbow Trout 11 - 18 mg/L
Xylene	1330-20-7	EC50 (48h) Daphnia magna 3.28 mg/L	No data available	LC50 (96h) Rainbow Trout 2.6 mg/L
Naphthalene	91-20-3	EC50 (48h) Daphnia magna 2.16 mg/L	No data available	LC50 (96h) Rainbow Trout 1.6 mg/L
Light hydrocracked distillate	64741-77-1	No data available	No data available	LC50 (96h) BRACHYDANIO

				RERIO 7.3 mg/L
Kerosine, petroleum, hydrodesulfurized	64742-81-0	EC50 (48h) 4720 mg/L	No data available	LC50 (96h) 45 mg/L
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No data available	No data available	LC50 (96h) BRACHYDANIO RERIO 7.3 mg/L
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No data available	No data available	LC50 (96h) Pimephales promelas (Fathead Minnow) 35 mg/L

Persistence and degradability: Biodegrades quickly.
Bioaccumulative potential: Bioconcentration may occur.
Mobility in soil: This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.
Other adverse effects: None known.

13 Disposal considerations

Information on safe handling for disposal and methods of disposal, including any contaminated packaging: Spent or discarded material is a hazardous waste.

14 Transport information

Transportation of Dangerous Goods by land (TDG):

UN number: UN1993
UN Proper shipping name: FLAMMABLE LIQUIDS, N.O.S
Technical Name: KEROSENE
Transport hazard class(es): 3
Packing group: III
Exception: LTD QTY

International carriage of dangerous goods by sea (IMDG/IMO):

UN number: UN1993
UN Proper shipping name: FLAMMABLE LIQUIDS, N.O.S
Technical Name: KEROSENE
Transport hazard class(es): 3
Packing group: III
Exception: LTD QTY

International carriage of dangerous goods by air (IATA):

UN number:	UN1993
UN Proper shipping name:	FLAMMABLE LIQUIDS, N.O.S
Technical Name:	KEROSENE
Transport hazard class(es):	3
Packing group:	III
Exception:	LTD QTY
Environmental hazards according to the International Maritime Dangerous Goods Code and the United Nations Model Regulations:	Yes
Transport in bulk (according to Annex II of the International Convention for the Prevention of Pollution From Ships, 1973, as modified by the Protocol of 1978 (MARPOL 73/78) and the International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code)):	No data available
Special precautions in connection with transport or conveyance either within or outside the premises:	No data available

15 Regulatory information

Safety, health and environmental regulations, made within or outside Canada, specific to the product in question:

Canada - Domestic Substances List (DSL):

Chemical Name	CAS No	Canada - Domestic Substances List (DSL)
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	Yes
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	Yes
Distillates, petroleum, straight-run middle	64741-44-2	Yes
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	Yes
Kerosene	8008-20-6	Yes
Kerosine, petroleum, hydrodesulfurized	64742-81-0	Yes
Light hydrocracked distillate	64741-77-1	Yes

Naphthalene	91-20-3	Yes
Xylene	1330-20-7	Yes
Toluene	108-88-3	Yes
Ethylbenzene	100-41-4	Yes
Benzene	71-43-2	Yes

Canada - Non-Domestic Substances List (NDSL):

Chemical Name	CAS No	Canada - Non-Domestic Substances List (NDSL)
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

Canada - Controlled Drugs and Substances:

Chemical Name	CAS No	Schedule I	Schedule II	Schedule III	Schedule IV	Schedule V	Schedule VII	Schedule VIII
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No	No	No	No	No	No	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No	No	No	No	No	No	No
Distillates, petroleum, straight-run middle	64741-44-2	No	No	No	No	No	No	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No	No	No	No	No	No	No

Kerosene	8008-20-6	No	No	No	No	No	No	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No	No	No	No	No	No	No
Light hydrocracked distillate	64741-77-1	No	No	No	No	No	No	No
Naphthalene	91-20-3	No	No	No	No	No	No	No
Xylene	1330-20-7	No	No	No	No	No	No	No
Toluene	108-88-3	No	No	No	No	No	No	No
Ethylbenzene	100-41-4	No	No	No	No	No	No	No
Benzene	71-43-2	No	No	No	No	No	No	No

Chemical Name	CAS No	Class A Precursors	Class B Precursors	Exempt Precursors	Class 1 Targeted Substances	Class 2 Targeted Substances
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No	No	No	No	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No	No	No	No	No
Distillates, petroleum, straight-run middle	64741-44-2	No	No	No	No	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No	No	No	No	No
Kerosene	8008-20-6	No	No	No	No	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No	No	No	No	No
Light hydrocracked distillate	64741-77-1	No	No	No	No	No
Naphthalene	91-20-3	No	No	No	No	No
Xylene	1330-20-7	No	No	No	No	No
Toluene	108-88-3	No	Yes	No	No	No
Ethylbenzene	100-41-4	No	No	No	No	No
Benzene	71-43-2	No	No	No	No	No

Canada - CEPA - Schedule III Export Control List:

Chemical Name	CAS No	Part 1 Prohibited Substances	Part 2 Substances Subject to Notification or Consent	Part 3 Restricted Substances	Export Control List
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No	No	No	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No	No	No	No
Distillates, petroleum, straight-run middle	64741-44-2	No	No	No	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No	No	No	No
Kerosene	8008-20-6	No	No	No	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No	No	No	No
Light hydrocracked distillate	64741-77-1	No	No	No	No
Naphthalene	91-20-3	No	No	No	No
Xylene	1330-20-7	No	No	No	No
Toluene	108-88-3	No	No	No	No
Ethylbenzene	100-41-4	No	No	No	No
Benzene	71-43-2	No	No	No	No

Canada CEPA - 2015 Greenhouse Gases (GHG) Subject to Mandatory Reporting:

Chemical Name	CAS No	Canada CEPA - 2015 Greenhouse Gases (GHG) Subject to Mandatory Reporting
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No
Distillates, petroleum, solvent-	64742-65-0	No

dewaxed heavy paraffinic		
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

Canada - Narcotic Control Regulations (C.R.C., c. 1041):

Chemical Name	CAS No	Canada - Narcotic Control Regulations (C.R.C., c. 1041)
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

Canada - Ontario - Toxics Reduction - List of Priority Toxics:

Chemical Name	CAS No	Canada - Ontario - Toxics Reduction - List of Priority Toxics
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No

Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

Stockholm Convention on Persistent Organic Pollutants:

Chemical Name	CAS No	Stockholm Convention on Persistent Organic Pollutants
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No

Benzene	71-43-2	No

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade:

Chemical Name	CAS No	Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade .
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

(United Nations) - Kyoto Protocol - Convention on Climate Change - Greenhouse Gases (GHGs):

Chemical Name	CAS No	(United Nations) - Kyoto Protocol - Convention on Climate Change - Greenhouse Gases (GHGs)
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No

Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

Montreal Protocol on Substances that Deplete the Ozone Layer:

Chemical Name	CAS No	Montreal Protocol on Substances that Deplete the Ozone Layer
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal:

Chemical Name	CAS No	Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and their Disposal
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run middle	64741-44-2	No
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	No
Kerosene	8008-20-6	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Naphthalene	91-20-3	No
Xylene	1330-20-7	No
Toluene	108-88-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

16 Other information

Date of the latest revision of the safety data sheet: 27-02-2025

Revision Number: 11

Reason for revision: NEW VERSION

Disclaimer: This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.