Safety Data Sheet

Stock Number: MAG00609
Date of the latest revision of the safety data sheet: 03-05-2024
Supercedes: 02-05-2024

MAG 1 TC-W3 2-CYCLE 6/1QT

1 Identification

Product Identifier: **MAG 1 TC-W3 2-CYCLE 6/1QT**
Stock Number: MAG00609
Other means of identification:

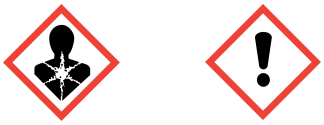
Other means of identification:
Synonyms: No data available

Recommended use and restrictions on use:
Recommended use: Two Cycle Engine Oil
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:
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2B
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1A
Reproductive Toxicity Category 2
Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

GHS Hazard class symbols:



Signal word: Danger
Hazard statements: Causes skin and eye irritation. 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. 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. 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 ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Call a POISON CENTER/doctor. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage: Store in a well-ventilated place. Keep container tightly closed. 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
Ethylbenzene	No data available	100-41-4	0.1 - 0.5
Benzene	No data available	71-43-2	0.1 - 0.5
Toluene	No data available	108-88-3	0.1 - 0.5
Naphthalene	No data available	91-20-3	0.5 - 1
Distillates, petroleum, solvent-dewaxed light paraffinic	No data available	64742-56-9	0.5 - 1
Light hydrocracked distillate	No data available	64741-77-1	3 - 7
Kerosine, petroleum, hydrodesulfurized	No data available	64742-81-0	7 - 13
Residual oils, petroleum, solvent-	No data available	64742-62-7	10 - 30

dewaxed			
Kerosene	No data available	8008-20-6	10 - 30
Distillates, petroleum, hydrodesulfurized middle	No data available	64742-80-9	10 - 30
Distillates, petroleum, hydrodesulfurized light catalytic cracked	No data available	68333-25-5	10 - 30
Distillates, petroleum, straight-run middle	No data available	64741-44-2	10 - 30
Petroleum distillates, hydrotreated heavy paraffinic	No data available	64742-54-7	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. Severe pulmonary irritation

An indication of immediate medical attention and special treatment needed, if necessary: Aspiration during swallowing or vomiting may severely damage the lungs.

5 Fire-fighting measures

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, or dry chemical 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 surface of the fire. Do not direct a stream of water 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: Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide
Special protective equipment and precautions for firefighters:	Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

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
Petroleum distillates, hydrotreated 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
Toluene	50 ppm TWA; 188 mg/m3 TWA	No data available	No data available
Benzene	0.5 ppm TWA; 1.6	2.5 ppm STEL; 8	No data available

	mg/m3 TWA	mg/m3 STEL	
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
Petroleum distillates, hydrotreated heavy paraffinic	0.2 mg/m3 TWA (mildly refined); 1 mg/m3 TWA (severely refined)	No data available	No data available
Kerosene	200 mg/m3 TWA (application restricted to conditions in which there are negligible aerosol exposures, as total Hydrocarbon vapour)	No data available	No data available
Kerosine, petroleum, hydrodesulfurized	No data available	No data available	No data available
Naphthalene	10 ppm TWA	No data available	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
Petroleum distillates, hydrotreated 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,	200 mg/m3 TWA	No data available	No data available

hydrodesulfurized	(application restricted to conditions in which there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)		
Naphthalene	10 ppm TWA	No data available	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 - TWAs	Occupational Exposure Limits - STELs	Occupational Exposure Limits - Ceiling
Petroleum distillates, hydrotreated 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
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
Petroleum distillates, hydrotreated 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	No data available	No data available

	aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)		
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
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
Petroleum distillates, hydrotreated 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
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
Petroleum distillates,	5 mg/m3 TWA	No data available	No data available

hydrotreated heavy paraffinic			
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
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
Petroleum distillates, hydrotreated 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
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
Petroleum distillates, hydrotreated heavy paraffinic	5 mg/m3 TWA	No data available	No data available
Kerosene	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
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
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
Petroleum distillates, hydrotreated heavy paraffinic	5 mg/m3 TWA	No data available	No data available
Kerosene	200 mg/m3 TWA (application restricted	No data available	No data available

	to conditions in which there are negligible aerosol exposures, total Hydrocarbon vapor, listed under Kerosene/Jet fuels)		
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
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
Petroleum distillates, hydrotreated 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
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
Petroleum distillates,	5 mg/m3 TWA	10 mg/m3 STEL	No data available

hydrotreated heavy paraffinic			
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 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
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
Petroleum distillates, hydrotreated 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
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
Petroleum distillates, hydrotreated 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	No STEL	No data available

		restricted to conditions in which there are 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
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:	Neoprene, Nitrile
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:	Blue
Odour:	Mild
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):	165
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:	30.07

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 the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation).
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	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. Severe pulmonary irritation

Immediate effects from short term exposure:

Inhalation:	Likely to be moderately toxic based on animal data. No hazard in normal industrial use.
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:	Classification is based on pH and the components listed in Section 3.
Ingestion:	Estimated to be > 5.0 g/kg. No hazard in normal industrial use.
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: Based on available data, the classification criteria are not met.

Numerical measures of toxicity, including ATEs Based on available data, the classification criteria are not met.

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	Aquatic ERC50 (72h) 4.6 mg/L	LC50 (96h) Rainbow Trout 11 -

		mg/L		18 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
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L
Mineral oil, white	8042-47-5	No data available	No data available	LC50 (96h) > 10000 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
Residual oils, petroleum, solvent-dewaxed	64742-62-7	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
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L

Persistence and degradability: Biodegrades slowly.
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 not expected to be a hazardous waste.

14 Transport information

Transportation of Dangerous Goods by land (TDG):

UN number:	Not regulated for road transport
UN Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable

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

UN number:	Not regulated by IMDG
UN Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable

International carriage of dangerous goods by air (IATA):

UN number:	Not regulated by IATA
UN Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable

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)
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	Yes
Distillates, petroleum,	64742-80-9	Yes

hydrodesulfurized middle		
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	Yes
Distillates, petroleum, straight-run middle	64741-44-2	Yes
Kerosene	8008-20-6	Yes
Residual oils, petroleum, solvent-dewaxed	64742-62-7	Yes
Kerosine, petroleum, hydrodesulfurized	64742-81-0	Yes
Light hydrocracked distillate	64741-77-1	Yes
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	Yes
Naphthalene	91-20-3	Yes
Ethylbenzene	100-41-4	Yes
Benzene	71-43-2	Yes
Toluene	108-88-3	Yes

Canada - Non-Domestic Substances List (NDSL):

Chemical Name	CAS No	Canada - Non-Domestic Substances List (NDSL)
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No
Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No

Benzene	71-43-2	No
Toluene	108-88-3	No

Canada - Controlled Drugs and Substances:

Chemical Name	CAS No	Schedule I	Schedule II	Schedule III	Schedule IV	Schedule V	Schedule VII	Schedule VIII
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No	No	No	No	No	No	No
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
Kerosene	8008-20-6	No	No	No	No	No	No	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	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
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No	No	No	No	No	No	No
Naphthalene	91-20-3	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
Toluene	108-88-3	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
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No	No	No	No	No
Distillates, petroleum,	64742-80-9	No	No	No	No	No

hydrodesulfurized middle						
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
Kerosene	8008-20-6	No	No	No	No	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	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
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No	No	No	No	No
Naphthalene	91-20-3	No	No	No	No	No
Ethylbenzene	100-41-4	No	No	No	No	No
Benzene	71-43-2	No	No	No	No	No
Toluene	108-88-3	No	Yes	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
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No	No	No	No
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
Kerosene	8008-20-6	No	No	No	No

Residual oils, petroleum, solvent-dewaxed	64742-62-7	No	No	No	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No	No	No	No
Light hydrocracked distillate	64741-77-1	No	No	No	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No	No	No	No
Naphthalene	91-20-3	No	No	No	No
Ethylbenzene	100-41-4	No	No	No	No
Benzene	71-43-2	No	No	No	No
Toluene	108-88-3	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
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No
Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

Toluene	108-88-3	No

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

Chemical Name	CAS No	Canada - Narcotic Control Regulations (C.R.C., c. 1041)
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No
Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No
Toluene	108-88-3	No

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

Chemical Name	CAS No	Canada - Ontario - Toxics Reduction - List of Priority Toxics
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
Distillates, petroleum, hydrodesulfurized middle	64742-80-9	No
Distillates, petroleum, hydrodesulfurized light catalytic cracked	68333-25-5	No
Distillates, petroleum, straight-run	64741-44-2	No

middle		
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No
Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No
Toluene	108-88-3	No

Stockholm Convention on Persistent Organic Pollutants:

Chemical Name	CAS No	Stockholm Convention on Persistent Organic Pollutants
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No
Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No

Toluene	108-88-3	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 .
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No
Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No
Toluene	108-88-3	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)
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No
Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No
Toluene	108-88-3	No

Montreal Protocol on Substances that Deplete the Ozone Layer:

Chemical Name	CAS No	Montreal Protocol on Substances that Deplete the Ozone Layer
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No

Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No
Toluene	108-88-3	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
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	No
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
Kerosene	8008-20-6	No
Residual oils, petroleum, solvent-dewaxed	64742-62-7	No
Kerosine, petroleum, hydrodesulfurized	64742-81-0	No
Light hydrocracked distillate	64741-77-1	No
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	No
Naphthalene	91-20-3	No
Ethylbenzene	100-41-4	No
Benzene	71-43-2	No
Toluene	108-88-3	No

16 Other information

Date of the latest revision of the safety data sheet: 03-05-2024
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