



PEAK TC-W3 2 Cycle Oil

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : PEAK TC-W3 2 Cycle Oil

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : 2 Cycle Oil

1.3. Details of the supplier of the safety data sheet

Old World Industries, LLC
4065 Commercial Ave.
Northbrook, IL 60062 - USA
T (847) 559-2000
www.oldworldind.com

1.4. Emergency telephone number

Emergency number : (800) 424-9300; (703) 527 3887 (International)
Chemtrec

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute Tox. 3 (Inhalation) H331
Acute Tox. 4 (Inhalation) H332
Skin Irrit. 2 H315
Muta. 1B H340
Carc. 1B H350
Repr. 2 H361
STOT SE 3 H336
STOT SE 3 H335
STOT RE 2 H373
Aquatic Acute 1 H400
Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS06

GHS07

GHS08

GHS09

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H315 - Causes skin irritation
H331 - Toxic if inhaled
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H340 - May cause genetic defects
H350 - May cause cancer
H361 - Suspected of damaging fertility or the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe mist, spray, vapors
P264 - Wash affected areas thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment

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P280 - Wear personal protective equipment as required
P302+P352 - If on skin: Wash with plenty of soap and water
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P308+P313 - If exposed or concerned: Get medical advice/attention
P314 - Get medical advice/attention if you feel unwell
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P391 - Collect spillage
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% by wt	GHS-US classification
distillates (petroleum), hydrotreated heavy paraffinic	(CAS No) 64742-54-7	30 - 60	Acute Tox. 3 (Inhalation:vapor), H331 Acute Tox. 4 (Inhalation:vapor), H332
Distillates, petroleum, straight-run middle	(CAS No) 64741-44-2	10 - 30	Flam. Liq. 3, H226 Acute Tox. 2 (Inhalation), H330 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
kerosene	(CAS No) 8008-20-6	10 - 30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Distillates (petroleum), hydrodesulfurized middle	(CAS No) 64742-80-9	10 - 30	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 1A, H350 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Distillates (petroleum), hydrodesulfurized light catalytic cracked	(CAS No) 68333-25-5	10 - 30	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 1A, H350 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
residual oils (petroleum), solvent-dewaxed	(CAS No) 64742-62-7	10 - 30	Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Inhalation), H332
kerosine(petroleum),hydrodesulfurized	(CAS No) 64742-81-0	5 - 10	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
distillates (petroleum), hydrotreated middle	(CAS No) 64742-46-7	1 - 5	Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Inhalation), H332
Distillates (petroleum), solvent-refined light paraffinic	(CAS No) 64741-89-5	1 - 5	Acute Tox. 3 (Inhalation), H331 Acute Tox. 4 (Inhalation), H332
2-Butenedioic acid (E)-, di-C8-18-alkyl ester	(CAS No) 68610-90-2	1 - 5	Aquatic Chronic 4, H413

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Name	Product identifier	% by wt	GHS-US classification
petroleumdistillates, light hydrocracked	(CAS No) 64741-77-1	1 - 5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
naphthalene	(CAS No) 91-20-3	0.1 - 1	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
toluene	(CAS No) 108-88-3	0.1 - 1	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304
ethylbenzene	(CAS No) 100-41-4	0.1 - 1	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Muta. 1B, H340 Carc. 1A, H350 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
benzene	(CAS No) 71-43-2	0.1 - 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse immediately with plenty of water for 15 minutes, lifting lower and upper lids. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation. Dizziness.
- Symptoms/injuries after skin contact : Contact during a long period may cause slight irritation.
- Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.
- Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.

4.3. Indication of any immediate medical attention and special treatment needed

Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : Do not use a heavy water stream. Will float and can be reignited on water surface.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable. Promotes combustion.
- Explosion hazard : Not applicable.
- Reactivity : No dangerous reactions known under normal conditions of use.

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5.3. Advice for firefighters

- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Fight fire with normal precautions from a reasonable distance. Under fire conditions, hazardous fumes will be present.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Special protective equipment for fire fighters : Protective fire fighting clothing (includes fire-fighting helmet, coat, pants, boots and gloves). Wear positive pressure self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, spray.

6.1.1. For non-emergency personnel

- Protective equipment : Use appropriate personal protection equipment (PPE).
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

- Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Contain leaking substance. Plug the leak, cut off the supply. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

6.4. Reference to other sections

- No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Store in a dry place. Store in a well-ventilated place. Keep cool. Keep container closed when not in use. Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near food, foodstuffs, drugs or potable water supplies.

7.3. Specific end use(s)

- No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PEAK TC-W3 2 Cycle Oil		
ACGIH	ACGIH TWA (mg/m ³)	5.00 mg/m ³ Chemical name: Oil mist, mineral
ACGIH	ACGIH STEL (mg/m ³)	10.00 mg/m ³ Chemical name: Oil mist, mineral
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ Chemical name: Oil mist, mineral
OSHA	Remark (OSHA)	Skin notation

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³
OSHA	Not applicable	

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kerosene (8008-20-6)		
ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³
ACGIH	Remark (ACGIH)	application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor, Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA	Not applicable	

kerosine(petroleum),hydrodesulfurized (64742-81-0)		
ACGIH	ACGIH TWA (mg/m ³)	200 mg/m ³
ACGIH	Remark (ACGIH)	application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor, Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA	Not applicable	

naphthalene (91-20-3)		
ACGIH	ACGIH TWA (mg/m ³)	52 mg/m ³
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (ppm)	10 ppm
ACGIH	Remark (ACGIH)	application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor, Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA	OSHA PEL (TWA) (mg/m ³)	50 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
OSHA	OSHA PEL (STEL) (mg/m ³)	75 mg/m ³
OSHA	OSHA PEL (STEL) (ppm)	15 ppm

toluene (108-88-3)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Visual impairment; female reproductive;
OSHA	Remark (OSHA)	(2) See Table Z-2.

ethylbenzene (100-41-4)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	20 ppm
ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritant; kidney damage (nephropathy)
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	OSHA PEL (STEL) (mg/m ³)	545 mg/m ³
OSHA	OSHA PEL (STEL) (ppm)	125 ppm

benzene (71-43-2)		
ACGIH	ACGIH TWA (ppm)	0.50 ppm
ACGIH	ACGIH STEL (ppm)	2.5 ppm
ACGIH	Remark (ACGIH)	application restricted to conditions in which there are negligible aerosol exposures, total hydrocarbon vapor, Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA	Not applicable	

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8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
Personal protective equipment : Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



- Hand protection : Wear suitable gloves resistant to chemical penetration.
Eye protection : Chemical goggles or safety glasses.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
Color : brown
Odor : petroleum-like odor
Odor threshold : No data available
Relative evaporation rate (butylacetate=1) : No data available
Freezing point : -40 °C (-40 °F)
Boiling point : No data available
Flash point : 165 °C (329 °F) [Method used: Cleveland Open Cup]
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 3.66 - 4.42
Relative vapor density at 20 °C : No data available
Specific Gravity : 0.86
Density : 0.856 kg/l (7.14 lbs/gal)
Solubility : Water: Negligible
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : 30.07 cP
Explosive properties : Not applicable.
Oxidizing properties : No data available
Explosive limits : No data available

9.2. Other information

- VOC content : 0.00 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Keep away from open flames, hot surfaces and sources of ignition. Moisture (will lead to product degradation).

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10.5. Incompatible materials

Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. hydrocarbons. Smoke, sulfur oxides, aldehydes & other petroleum decomposition products in the case of incomplete combustion. Oxides of nitrogen, phosphorus, calcium, copper, magnesium, sodium, and hydrogen sulfide may also be present.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation: Toxic if inhaled. Inhalation: Harmful if inhaled.

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral rat	> 5,000.00 mg/kg bodyweight (Rat; OECD 401: Acute Oral Toxicity; Experimental value)
LD50 dermal rabbit	> 5,000.00 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LC50 inhalation rat (mg/l)	> 5.53 mg/l/4h (Rat; Experimental value)
ATE US (vapors)	3.00 mg/l/4h

Distillates, petroleum, straight-run middle (64741-44-2)	
ATE US (gases)	100.00 ppmv/4h
ATE US (vapors)	0.50 mg/l/4h
ATE US (dust,mist)	0.05 mg/l/4h

kerosene (8008-20-6)	
LD50 oral rat	> 5,000.00 mg/kg (Rat)
LD50 dermal rat	> 2,000.00 mg/kg (Rat)
LD50 dermal rabbit	> 2,000.00 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h (Rat)

Distillates (petroleum), hydrodesulfurized middle (64742-80-9)	
ATE US (gases)	4,500.00 ppmv/4h
ATE US (vapors)	11.00 mg/l/4h
ATE US (dust,mist)	1.50 mg/l/4h

Distillates (petroleum), hydrodesulfurized light catalytic cracked (68333-25-5)	
ATE US (gases)	4,500.00 ppmv/4h
ATE US (vapors)	11.00 mg/l/4h
ATE US (dust,mist)	1.50 mg/l/4h

residual oils (petroleum), solvent-dewaxed (64742-62-7)	
ATE US (gases)	700.00 ppmv/4h
ATE US (vapors)	3.00 mg/l/4h
ATE US (dust,mist)	0.50 mg/l/4h

distillates (petroleum), hydrotreated middle (64742-46-7)	
ATE US (gases)	700.00 ppmv/4h
ATE US (vapors)	3.00 mg/l/4h
ATE US (dust,mist)	0.50 mg/l/4h

Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)	
ATE US (gases)	700.00 ppmv/4h
ATE US (vapors)	3.00 mg/l/4h
ATE US (dust,mist)	0.50 mg/l/4h

petroleumdistillates, light hydrocracked (64741-77-1)	
ATE US (gases)	4,500.00 ppmv/4h
ATE US (vapors)	11.00 mg/l/4h
ATE US (dust,mist)	1.50 mg/l/4h

naphthalene (91-20-3)	
LD50 oral rat	> 1,100.00 mg/kg (Rat)
LD50 dermal rat	> 2,500.00 mg/kg (Rat)
LD50 dermal rabbit	> 20,000.00 mg/kg (Rabbit)
ATE US (oral)	500.00 mg/kg bodyweight

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toluene (108-88-3)	
LD50 oral rat	> 2,000.00 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 5580 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	12,223.00 mg/kg (Rabbit; Literature study; Other; >5000 mg/kg bodyweight; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	> 20.00 mg/l/4h (Rat; Literature study)
ATE US (oral)	500.00 mg/kg bodyweight
ATE US (gases)	4,500.00 ppmv/4h
ATE US (vapors)	11.00 mg/l/4h
ATE US (dust,mist)	1.50 mg/l/4h

ethylbenzene (100-41-4)	
LD50 oral rat	3,500.00 mg/kg (Rat; Other; Experimental value)
LD50 dermal rabbit	15,415.00 mg/kg (Rabbit; Literature study; Other; 15432 mg/kg; Rabbit; Experimental value)
LC50 inhalation rat (mg/l)	17.80 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	4,000.00 ppm/4h (Rat; Literature study)
ATE US (gases)	4,500.00 ppmv/4h
ATE US (vapors)	11.00 mg/l/4h
ATE US (dust,mist)	1.50 mg/l/4h

benzene (71-43-2)	
LD50 oral rat	> 930.00 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; > 2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	> 8,240.00 mg/kg (Rabbit; Experimental value; 21 CFR 191.10; > 9.4; Rabbit)
LC50 inhalation rat (mg/l)	43.77 mg/l/4h (Rat; Experimental value)
LC50 inhalation rat (ppm)	13,700.00 ppm/4h (Rat; Experimental value)

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : May cause genetic defects.

Carcinogenicity : May cause cancer.

kerosene (8008-20-6)	
IARC group	3 - Not classifiable

naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans

toluene (108-88-3)	
IARC group	3 - Not classifiable

ethylbenzene (100-41-4)	
IARC group	2B - Possibly carcinogenic to humans

benzene (71-43-2)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

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Symptoms/injuries after inhalation	: ON CONTINUOUS EXPOSURE/CONTACT: May cause respiratory irritation. Dizziness.
Symptoms/injuries after skin contact	: Contact during a long period may cause slight irritation.
Symptoms/injuries after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/injuries after ingestion	: Ingestion is likely to be harmful or have adverse effects.

SECTION 12: Ecological information

12.1. Toxicity

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Threshold limit algae 1	>= 100 mg/l (72 h; Pseudokirchneriella subcapitata; Cell numbers)

kerosene (8008-20-6)	
LC50 fish 1	18 - 25 mg/l (96 h; Pisces)
LC50 other aquatic organisms 1	1 - 100 mg/l
EC50 Daphnia 1	1.4 - 21 mg/l (Daphnia magna)
LC50 fish 2	45.00 mg/l (Pimephales promelas)
TLM fish 1	2990 ppm (24 h; Lepomis macrochirus)
Threshold limit other aquatic organisms 1	1 - 100
Threshold limit algae 1	4 - 8,Algae

naphthalene (91-20-3)	
LC50 fish 1	1.99 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	2.16 mg/l (48 h; Daphnia magna)
EC50 other aquatic organisms 1	2.96 mg/l (4 h; Selenastrum capricornutum)
LC50 fish 2	0.11 mg/l (96 h; Oncorhynchus mykiss)
TLM fish 1	150 mg/l (96 h; Lepomis macrochirus; Cool water)
TLM fish 2	1.24 ppm (96 h; Oncorhynchus gorbuscha)
Threshold limit algae 1	0.4 mg/l (72 h; Skeletonema costatum; Growth rate)

toluene (108-88-3)	
LC50 fish 1	24.00 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	84.00 mg/l (24 h; Daphnia magna; Locomotor effect)
LC50 fish 2	13.00 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	11.5 - 19.6 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 400 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	105 mg/l (192 h; Microcystis aeruginosa)

ethylbenzene (100-41-4)	
LC50 fish 1	9.09 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 1	77.00 mg/l (24 h; Daphnia magna)
EC50 other aquatic organisms 1	48.00 mg/l (72 h; Scenedesmus subspicatus)
LC50 fish 2	4.20 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 2	75.00 mg/l (48 h; Daphnia magna)
TLM fish 1	29 ppm (96 h; Lepomis macrochirus; Hard water)
TLM fish 2	42.3 mg/l (96 h; Pimephales promelas)
TLM other aquatic organisms 1	10 - 100,96 h
Threshold limit algae 1	> 160 mg/l (192 h; Scenedesmus quadricauda; Toxicity test)
Threshold limit algae 2	33 mg/l (192 h; Microcystis aeruginosa; Toxicity test)

benzene (71-43-2)	
LC50 fish 1	5.30 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 Daphnia 1	18.00 mg/l (24 h; Daphnia magna)
LC50 fish 2	15.10 mg/l (96 h; Pimephales promelas)
EC50 Daphnia 2	10.00 mg/l (48 h; Daphnia magna)
TLM fish 1	22.5 mg/l (96 h; Lepomis macrochirus; Soft water)
TLM fish 2	32 mg/l (96 h; Pimephales promelas; Hard water)
Threshold limit algae 1	100 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)
Threshold limit algae 2	50 mg/l (24 h; Phaeodactylum; Photosynthesis)

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12.2. Persistence and degradability

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Not readily biodegradable in water. Adsorbs into the soil.

kerosene (8008-20-6)	
Persistence and degradability	Biodegradable in water. Readily biodegradable in water in anaerobic conditions. Forming sediments in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Adsorbs into the soil.

naphthalene (91-20-3)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Biodegradable in the soil. Adsorbs into the soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	0.00 g O ₂ /g substance
Chemical oxygen demand (COD)	0.22 g O ₂ /g substance
ThOD	2.99 g O ₂ /g substance

toluene (108-88-3)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	2.15 g O ₂ /g substance
Chemical oxygen demand (COD)	2.52 g O ₂ /g substance
ThOD	3.13 g O ₂ /g substance
BOD (% of ThOD)	0.69 % ThOD

ethylbenzene (100-41-4)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Low potential for adsorption in soil.
Biochemical oxygen demand (BOD)	1.44 g O ₂ /g substance (20d.)
Chemical oxygen demand (COD)	2.10 g O ₂ /g substance
ThOD	3.17 g O ₂ /g substance
BOD (% of ThOD)	(20 day(s)) 45.4

benzene (71-43-2)	
Persistence and degradability	Readily biodegradable in water. Ozonation in water. Forming sediments in water. Biodegradable in the soil. Low potential for adsorption in soil. Photolysis in the air.
Biochemical oxygen demand (BOD)	2.18 g O ₂ /g substance
Chemical oxygen demand (COD)	2.15 g O ₂ /g substance
ThOD	3.10 g O ₂ /g substance
BOD (% of ThOD)	0.70 % ThOD

12.3. Bioaccumulative potential

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Bioaccumulative potential	No bioaccumulation data available.

kerosene (8008-20-6)	
Log Pow	3.3 - 6 (Calculated)
Bioaccumulative potential	Bioaccumable.

naphthalene (91-20-3)	
BCF fish 1	23 - 168 (8 weeks; Cyprinus carpio)
BCF fish 2	40 - 300 (672 h; Oncorhynchus mykiss)
BCF other aquatic organisms 1	331.00 (360 h; Ostreidae)
BCF other aquatic organisms 2	130.00 (24 h; Chlorella sp.)
Log Pow	3.30 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

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toluene (108-88-3)	
BCF fish 1	13.20 (Anguilla japonica)
BCF fish 2	90.00 (72 h; Leuciscus idus)
BCF other aquatic organisms 1	380.00 (24 h; Chlorella sp.; Fresh weight)
BCF other aquatic organisms 2	4.20 (Mytilus edulis; Fresh weight)
Log Pow	2.73 (Experimental value; Other; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

ethylbenzene (100-41-4)	
BCF fish 1	1.00 (6 weeks; Oncorhynchus kisutch)
BCF fish 2	15 - 79 (Carassius auratus)
BCF other aquatic organisms 1	4.68 (Lamellibranchiata)
Log Pow	3.15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

benzene (71-43-2)	
BCF fish 1	19.00 Salmo gairdneri (Oncorhynchus mykiss)
BCF fish 2	< 10.00 (3 days; Leuciscus idus)
BCF other aquatic organisms 1	30.00 (24 h; Chlorella sp.; Fresh weight)
Log Pow	2.13 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

12.4. Mobility in soil

kerosene (8008-20-6)	
Surface tension	0.02 - 0.03 N/m

naphthalene (91-20-3)	
Surface tension	0.03 N/m (100 °C)

toluene (108-88-3)	
Surface tension	0.03 N/m (20 °C)

ethylbenzene (100-41-4)	
Surface tension	0.03 N/m

benzene (71-43-2)	
Surface tension	0.03 N/m (20 °C)

12.5. Other adverse effects

Effect on ozone layer	: No known effect on the ozone layer
Effect on global warming	: No known ecological damage caused by this product. No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose of contents/container, in a safe manner, to appropriate waste disposal facility, in accordance with local/regional/national/international regulations.
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SECTION 14: Transport information

In accordance with DOT	
Not a dangerous good in sense of transport regulations	
Other information	: No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

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Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

PEAK TC-W3 2 Cycle Oil	
EPA TSCA Regulatory Flag	Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
SARA Section 313 - Emission Reporting	In addition to the ingredients listed this product may contain the following products, in the percentages listed, which are subject to SARA 313 reporting: Xylene (mixed isomers) (CAS #1330-20-7) [0.1 - 1 %], Biphenyl (CAS #92-52-4) [0.01 - 0.1 %]
distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Distillates, petroleum, straight-run middle (64741-44-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
kerosene (8008-20-6)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Distillates (petroleum), hydrodesulfurized middle (64742-80-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Distillates (petroleum), hydrodesulfurized light catalytic cracked (68333-25-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
residual oils (petroleum), solvent-dewaxed (64742-62-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
kerosine(petroleum),hydrodesulfurized (64742-81-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Distillates (petroleum), solvent-refined light paraffinic (64741-89-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
2-Butenedioic acid (E)-, di-C8-18-alkyl ester (68610-90-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	TCSA 12(b) one-time export
petroleumdistillates, light hydrocracked (64741-77-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
naphthalene (91-20-3)	
Listed on United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to Form R - Reporting requirements; Subject to Supplier notification
toluene (108-88-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb(s)
ethylbenzene (100-41-4)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb(s)
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to Form R - Reporting Requirements; Subject to Supplier Notification

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benzene (71-43-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists)	10 lb(s)
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15.2. International regulations

CANADA

WHMIS Classification



Class B Division 3 -
Combustible Liquid



Class D Division 2
Subdivision B -
Toxic material
causing other toxic
effects

distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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naphthalene (91-20-3)

toluene (108-88-3)

ethylbenzene (100-41-4)

benzene (71-43-2)

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

National regulations

naphthalene (91-20-3)

Listed on the Canadian IDL (Ingredient Disclosure List)
Listed on Title V
Listed on the SC Toxic Air Pollutants List
Listed on RCRA Hazardous Substances Naphthalene (91-20-3) RCRA Code: U165
Listed on CERCLA Hazardous Substances List (RQ 100 lb)
Clean Water Act (CWA) 307
Clean Water Act (CWA) 311

ethylbenzene (100-41-4)

Listed on IARC (International Agency for Research on Cancer)

benzene (71-43-2)

Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)

15.3. US State regulations

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naphthalene (91-20-3)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	

toluene (108-88-3)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	Yes	Yes	7000

ethylbenzene (100-41-4)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	54

benzene (71-43-2)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes	No	Yes	24

kerosene (8008-20-6)				
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List				

naphthalene (91-20-3)				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Minnesota - Hazardous Substance List				

toluene (108-88-3)				
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Minnesota - Hazardous Substance List				

ethylbenzene (100-41-4)				
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Minnesota - Hazardous Substance List				

benzene (71-43-2)				
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Minnesota - Hazardous Substance List				

SECTION 16: Other information

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Full text of H-phrases:

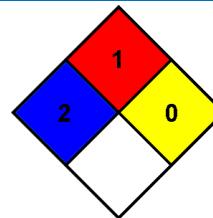
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:vapor)	Acute toxicity (inhalation:vapor) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Carc. 1B	Carcinogenicity, Category 1B
Carc. 2	Carcinogenicity, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 1B	Germ cell mutagenicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

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- NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- NFPA fire hazard : 1 - Must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

- Health : 2 Moderate Hazard - Temporary or minor injury may occur
- Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C). (Class IIIB)
- Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
- Personal Protection B - Safety glasses, Gloves

SDS GHS US (GHS HazCom 2012) OWI w/Supp OEL's

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