



The following SDS references the products below:

Marvel Air Tool Oil

Vendor Item Number: 50100 and 50093

Manufactured By:

Marvel Oil Co., Inc.

Distributed by Kimball Midwest with the KM product-
identification number:

80-120 and 80-121



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Safety Data Sheet

According To Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules And Regulations And According To The Hazardous Products Regulation (December 15, 2022).

Date of Issue: 09/09/2025

Version: 1.0

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Marvel Air Tool Oil

Product Code: MM85R1 (50100), MM080R (50093), 50099

1.2 Recommended Use and Restrictions on Use

Use Of The Substance/Mixture : Engine Oil Additive - Fuel Additive (EPA Registered)

Restrictions On Use : No additional information available

1.3. Name, Address, and Telephone of the Responsible Party

Manufacturer

Marvel Oil Company, Inc.

948 Springer Drive

Lombard, IL 60148

Phone Number: 1(630)455-3700

Toll-Free Number: 1(800)232-9596

1.4. Emergency Telephone Number

Emergency Number : VELOCITY EHS

Within USA and Canada: 1-800-424-9300 or +1-703-527-3887 (collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Aspiration hazard, Category 1	H304

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA) :



Signal Word (GHS-US/CA) :

Danger

Hazard Statements (GHS-US/CA) :

H226 - Flammable liquid and vapor.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H361 - Suspected of damaging fertility or the unborn child.

Precautionary Statements (GHS-US/CA) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.

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P261 - Avoid breathing mist, spray, or vapors.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, face protection, protective clothing and protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or a doctor.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice or attention.
P312 - Call a POISON CENTER or a doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P331 - Do NOT induce vomiting.
P332+P313 - If skin irritation occurs: Get medical advice or attention.
P337+P313 - If eye irritation persists: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3 Hazards associated with known or reasonably anticipated uses

If this product is used in unforeseeable chemical processes and not used as intended or reasonable, the hazards listed in Section 2.3 cannot cover all chemistries. Therefore, a Process Hazard Analysis (PHA) or other hazard assessment for additional specific end uses should be performed to ensure that hazards are fully understood, and adequate safety measures are in place. See Section 10 for relevant reactivity and stability information.

2.4. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.5 Unknown Acute Toxicity (GHS-US/CA)

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Petroleum distillates, hydrotreated light	Distillates (petroleum), hydrotreated light / Distillates, petroleum, hydrotreated light / Hydrotreated light distillate / Kerosene, hydrotreated / Petroleum distillates, hydrotreated light (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9-16 and boiling in the range of approximately 150-290°C.) / Odorless light petroleum hydrocarbons / Hydrocarbons, C11-14, n-	(CAS-No.) 64742-47-8	10 - 30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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	alkanes, isoalkanes, cyclics, / Distillates (petroleum), hydro-treated light; Kerosine - unspecified [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 150°C to 290°C (302°F to 554°F).] / Kerosene / c13-14 isoparaffin / Destillate (Erdöl), mit Wasserstoff behandelt leichte (C9-14 Aliphaten) / Light Aliphatic Hydrocarbon / Odourless light petroleum hydrocarbons / Mineral spirits			
Phosphoric acid, tris(methylphenyl) esters	Phosphoric acid, tris(methylphenyl) ester / Phosphoric acid, tritoyl ester / Tricresyl phosphate / Tris(methylphenyl) phosphate / Tritoyl phosphate / Tricresol phosphate / Tricresyl phosphate (ooo, oom, oop, omm, omp, opp) / Reaction mass of 3-methylphenyl di-4-methylphenyl phosphate and 4-methylphenyl di-3-methylphenyl phosphate and tris(3-methylphenyl)phosphate / Tricresyl phosphate (mixed isomers) / TRICRESYL PHOSPHATE / Triorthocresyl phosphate	(CAS-No.) 1330-78-5	0.1 - 1	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-Di-tert-butylphenol	2,6-Bis(tert-butyl)phenol / Phenol, 2,6-bis(1,1-dimethylethyl)- / Phenol, 2,6-di-tert-butyl- / 2,6-Bis(1,1-dimethylethyl)phenol	(CAS-No.) 128-39-2	0.1 - 1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
o-Dichlorobenzene	Benzene, 1,2-dichloro- / Benzene, o-dichloro- / ortho-Dichlorobenzene / 1,2-Dichlorobenzene / Dichlorobenzene, 1,2- / Dichlorobenzene, o- / o-DCB / 1,2-DICHLOROBENZENE	(CAS-No.) 95-50-1	0.1 - 1	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzene, 1,4-dichloro-	p-Dichlorobenzene / Benzene, p-dichloro- / para-Dichlorobenzene / 1,4-Dichlorobenzene / Dichlorobenzene, 1,4- / PDCB	(CAS-No.) 106-46-7	< 0.1	Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-Octene	Oct-1-ene / Octene, 1- / Caprylene / Octene-1	(CAS-No.) 111-66-0	< 0.1	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Phenol	Hydroxybenzene / Monohydroxybenzene / Phenic acid / Benzene, hydroxy- / Carbolic acid / Carbolic oil / PHENOL / Phenols	(CAS-No.) 108-95-2	< 0.1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Methyl acrylate	Acrylic acid, methyl ester / 2-Propenoic acid, methyl ester / Methyl acrylate, stabilized / Methyl propenoate / Methyl prop-2-enoate / Methyl 2-propenoate	(CAS-No.) 96-33-3	< 0.1	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Propylene oxide	Epoxypropane / 1,2-Epoxypropane / Methyloxirane / Oxirane, methyl- / Propane, 1,2-epoxy- / Propylene epoxide / 1,2-Propylene oxide / Oxirane, 2-methyl- / 2-Methyloxirane	(CAS-No.) 75-56-9	< 0.1	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Eye Irrit. 2, H319 Muta. 1B, H340 Carc. 1B, H350 STOT SE 3, H335
Ethylene oxide	Dimethylene oxide / 1,2-Epoxyethane / Oxirane / Epoxyethane	(CAS-No.) 75-21-8	< 0.1	Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation:gas), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 Aquatic Acute 3, H402
1,4-Dioxane	1,4-Diethylene dioxide / 1,4-Dioxacyclohexane / p-Dioxane / Dioxane, para- / 1,4-Dioxan / Diethylene dioxide / Dioxan / Dioxane / Dioxane, 1,4- / 1,4-Diethylene oxide	(CAS-No.) 123-91-1	< 0.1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335

Full text of H-statements: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2022-272 and 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

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General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

Skin Contact: Immediately remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. If exposed or concerned: Get medical advice/attention.

Eye Contact: Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Place affected person on their side. Immediately call a POISON CENTER or doctor/physician.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Causes skin irritation. Causes serious eye irritation. May cause drowsiness and dizziness. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways.

Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂). Water may be ineffective but water should be used to keep fire-exposed container cool.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid and vapor.

Explosion Hazard: May form flammable or explosive vapor-air mixture.

Reactivity: Reacts violently with strong oxidizers. Increased risk of fire or explosion.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Acrid smoke and irritating fumes. Phosphorus oxides.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Eliminate ignition sources first, then ventilate the area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

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6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Precautions for Safe Handling: Do not get in eyes, on skin, or on clothing. Obtain special instructions before use. Take precautionary measures against static discharge. Do not handle until all safety precautions have been read and understood. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not breathe mist, spray, or vapors.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool place. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

7.3. Specific End Use(s)

Engine Oil Additive - Fuel Additive (EPA Registered)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

o-Dichlorobenzene (95-50-1)		
USA ACGIH	ACGIH® TLV® TWA	25 ppm
USA ACGIH	ACGIH® TLV® STEL	50 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL C	300 mg/m ³
USA OSHA	OSHA PEL C	50 ppm
USA NIOSH	NIOSH REL C	300 mg/m ³
USA NIOSH	NIOSH REL C	50 ppm
USA IDLH	IDLH	200 ppm
Alberta	OEL STEL	300 mg/m ³
Alberta	OEL STEL	50 ppm
Alberta	OEL TWA	150 mg/m ³
Alberta	OEL TWA	25 ppm
British Columbia	OEL STEL	50 ppm
British Columbia	OEL TWA	25 ppm
Manitoba	OEL STEL	50 ppm
Manitoba	OEL TWA	25 ppm
New Brunswick	OEL STEL	50 ppm
New Brunswick	OEL TWA	25 ppm
Newfoundland & Labrador	OEL STEL	50 ppm
Newfoundland & Labrador	OEL TWA	25 ppm
Nova Scotia	OEL STEL	50 ppm

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Nova Scotia	OEL TWA	25 ppm
Nunavut	OEL STEL	50 ppm
Nunavut	OEL TWA	25 ppm
Northwest Territories	OEL STEL	50 ppm
Northwest Territories	OEL TWA	25 ppm
Ontario	OEL TWAEV	50 ppm
Ontario	OEL TWAEV	25 ppm
Prince Edward Island	OEL STEL	50 ppm
Prince Edward Island	OEL TWA	25 ppm
Québec	VECD (OEL STEV)	50 ppm
Québec	VEMP (OEL TWAEV)	25 ppm
Saskatchewan	OEL STEL	50 ppm
Saskatchewan	OEL TWA	25 ppm
Yukon	OEL C	300 mg/m ³
Yukon	OEL C	50 ppm
Benzene, 1,4-dichloro- (106-46-7)		
USA ACGIH	ACGIH® TLV® TWA	10 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans
USA OSHA	OSHA PEL TWA	450 mg/m ³
USA OSHA	OSHA PEL TWA	75 ppm
USA IDLH	IDLH	150 ppm
Alberta	OEL TWA	60 mg/m ³
Alberta	OEL TWA	10 ppm
British Columbia	OEL TWA	10 ppm
Manitoba	OEL TWA	10 ppm
New Brunswick	OEL TWA	10 ppm
Newfoundland & Labrador	OEL TWA	10 ppm
Nova Scotia	OEL TWA	10 ppm
Nunavut	OEL STEL	15 ppm
Nunavut	OEL TWA	10 ppm
Northwest Territories	OEL STEL	15 ppm
Northwest Territories	OEL TWA	10 ppm
Ontario	OEL TWAEV	10 ppm
Prince Edward Island	OEL TWA	10 ppm
Québec	VEMP (OEL TWAEV)	10 ppm
Saskatchewan	OEL STEL	15 ppm
Saskatchewan	OEL TWA	10 ppm
Methyl acrylate (96-33-3)		
USA ACGIH	ACGIH® TLV® TWA	2 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer
USA OSHA	OSHA PEL TWA	35 mg/m ³
USA OSHA	OSHA PEL TWA	10 ppm
USA OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
USA NIOSH	NIOSH REL TWA	35 mg/m ³
USA NIOSH	NIOSH REL TWA	10 ppm
USA IDLH	IDLH	250 ppm
Alberta	OEL TWA	7 mg/m ³
Alberta	OEL TWA	2 ppm

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British Columbia	OEL TWA	2 ppm
Manitoba	OEL TWA	2 ppm
New Brunswick	OEL TWA	2 ppm
Newfoundland & Labrador	OEL TWA	2 ppm
Nova Scotia	OEL TWA	2 ppm
Nunavut	OEL STEL	4 ppm
Nunavut	OEL TWA	2 ppm
Northwest Territories	OEL STEL	4 ppm
Northwest Territories	OEL TWA	2 ppm
Ontario	OEL TWAEV	2 ppm
Prince Edward Island	OEL TWA	2 ppm
Québec	VEMP (OEL TWAEV)	7 mg/m ³
Québec	VEMP (OEL TWAEV)	2 ppm
Saskatchewan	OEL STEL	4 ppm
Saskatchewan	OEL TWA	2 ppm
Yukon	OEL STEL	35 mg/m ³
Yukon	OEL STEL	10 ppm
Yukon	OEL TWA	35 mg/m ³
Yukon	OEL TWA	10 ppm
Propylene oxide (75-56-9)		
USA ACGIH	ACGIH® TLV® TWA	2 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, dermal sensitizer
USA OSHA	OSHA PEL TWA	240 mg/m ³
USA OSHA	OSHA PEL TWA	100 ppm
USA IDLH	IDLH	400 ppm
Alberta	OEL TWA	4.7 mg/m ³
Alberta	OEL TWA	2 ppm
British Columbia	OEL TWA	2 ppm
Manitoba	OEL TWA	2 ppm
New Brunswick	OEL TWA	2 ppm
Newfoundland & Labrador	OEL TWA	2 ppm
Nova Scotia	OEL TWA	2 ppm
Nunavut	OEL STEL	4 ppm
Nunavut	OEL TWA	2 ppm
Northwest Territories	OEL STEL	4 ppm
Northwest Territories	OEL TWA	2 ppm
Ontario	OEL TWAEV	2 ppm
Prince Edward Island	OEL TWA	2 ppm
Québec	VEMP (OEL TWAEV)	2 ppm
Saskatchewan	OEL STEL	4 ppm
Saskatchewan	OEL TWA	2 ppm
Yukon	OEL STEL	360 mg/m ³
Yukon	OEL STEL	150 ppm
Yukon	OEL TWA	240 mg/m ³
Yukon	OEL TWA	100 ppm
Ethylene oxide (75-21-8)		
USA ACGIH	ACGIH® TLV® TWA	1 ppm
USA ACGIH	ACGIH chemical category	Suspected Human Carcinogen
USA ACGIH	BEI	Parameter: N-(2-Hydroxyethyl)valine (HEV) hemoglobin adducts - Medium: blood - Sampling time: not critical

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		(applies to workers having representative Ethylene oxide exposure during the previous 120 days) Parameter: S-(2-Hydroxyethyl)mercapturic acid (HEMA) - Medium: urine - Sampling time: end of shift (nonspecific, population based)
USA OSHA	OSHA PEL TWA	1 ppm
USA OSHA	OSHA PEL STEL	5 ppm (see 29 CFR 1910.1047)
USA OSHA	OSHA Action Level/Excursion Limit	0.5 ppm (Action Level, see 29 CFR 1910.1047) 5 ppm (Excursion Limit, see 29 CFR 1910.1047)
USA NIOSH	NIOSH REL TWA	0.18 mg/m ³ (less than stated value)
USA NIOSH	NIOSH REL TWA	0.1 ppm (less than stated value)
USA NIOSH	NIOSH REL C	9 mg/m ³
USA NIOSH	NIOSH REL C	5 ppm
USA IDLH	IDLH	800 ppm
Alberta	OEL TWA	1.8 mg/m ³
Alberta	OEL TWA	1 ppm
British Columbia	OEL STEL	1 ppm
British Columbia	OEL TWA	0.1 ppm
Manitoba	OEL TWA	1 ppm
New Brunswick	OEL TWA	1 ppm
Newfoundland & Labrador	OEL TWA	1 ppm
Nova Scotia	OEL TWA	1 ppm
Nunavut	OEL STEL	2 ppm
Nunavut	OEL TWA	1 ppm
Northwest Territories	OEL STEL	2 ppm
Northwest Territories	OEL TWA	1 ppm
Ontario	OEL TWAEV	18 mg/m ³ (designated substances regulation)
Ontario	OEL TWAEV	10 ppm (designated substances regulation)
Ontario	OEL TWAEV	1.8 mg/m ³ (designated substances regulation)
Ontario	OEL TWAEV	1 ppm (designated substances regulation) 1 ppm (applies to workplaces to which the designated substances regulation does not apply)
Prince Edward Island	OEL TWA	1 ppm
Québec	VEMP (OEL TWAEV)	1.8 mg/m ³
Québec	VEMP (OEL TWAEV)	1 ppm
Saskatchewan	OEL STEL	2 ppm
Saskatchewan	OEL TWA	1 ppm
Yukon	OEL STEL	135 mg/m ³
Yukon	OEL STEL	75 ppm
Yukon	OEL TWA	90 mg/m ³
Yukon	OEL TWA	50 ppm
1,4-Dioxane (123-91-1)		
USA ACGIH	ACGIH® TLV® TWA	20 ppm
USA ACGIH	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
USA OSHA	OSHA PEL TWA	360 mg/m ³
USA OSHA	OSHA PEL TWA	100 ppm
USA OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
USA NIOSH	NIOSH REL C	3.6 mg/m ³
USA NIOSH	NIOSH REL C	1 ppm
USA IDLH	IDLH	500 ppm

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Alberta	OEL TWA	72 mg/m ³
Alberta	OEL TWA	20 ppm
British Columbia	OEL TWA	20 ppm
Manitoba	OEL TWA	20 ppm
New Brunswick	OEL TWA	20 ppm
Newfoundland & Labrador	OEL TWA	20 ppm
Nova Scotia	OEL TWA	20 ppm
Nunavut	OEL STEL	30 ppm
Nunavut	OEL TWA	20 ppm
Northwest Territories	OEL STEL	30 ppm
Northwest Territories	OEL TWA	20 ppm
Ontario	OEL TWAEV	20 ppm
Prince Edward Island	OEL TWA	20 ppm
Québec	VEMP (OEL TWAEV)	72 mg/m ³
Québec	VEMP (OEL TWAEV)	20 ppm
Saskatchewan	OEL STEL	30 ppm
Saskatchewan	OEL TWA	20 ppm
Yukon	OEL STEL	180 mg/m ³ (technical grade)
Yukon	OEL STEL	50 ppm (technical grade)
Yukon	OEL TWA	180 mg/m ³ (technical grade)
Yukon	OEL TWA	50 ppm (technical grade)
1-Octene (111-66-0)		
USA AIHA	WEEL TWA	75 ppm
Phenol (108-95-2)		
USA ACGIH	ACGIH® TLV® TWA	5 ppm
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route
USA ACGIH	BEI	250 mg/g Kreatinin Parameter: Phenol with hydrolysis - Medium: urine - Sampling time: end of shift (background, nonspecific)
USA OSHA	OSHA PEL TWA	19 mg/m ³
USA OSHA	OSHA PEL TWA	5 ppm
USA OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
USA NIOSH	NIOSH REL TWA	19 mg/m ³
USA NIOSH	NIOSH REL TWA	5 ppm
USA NIOSH	NIOSH REL C	60 mg/m ³
USA NIOSH	NIOSH REL C	15.6 ppm
USA IDLH	IDLH	250 ppm
Alberta	OEL TWA	19 mg/m ³
Alberta	OEL TWA	5 ppm
British Columbia	OEL TWA	5 ppm
Manitoba	OEL TWA	5 ppm
New Brunswick	OEL TWA	5 ppm
Newfoundland & Labrador	OEL TWA	5 ppm
Nova Scotia	OEL TWA	5 ppm
Nunavut	OEL STEL	7.5 ppm
Nunavut	OEL TWA	5 ppm
Northwest Territories	OEL STEL	7.5 ppm
Northwest Territories	OEL TWA	5 ppm
Ontario	OEL TWAEV	5 ppm

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Prince Edward Island	OEL TWA	5 ppm
Québec	VEMP (OEL TWAEV)	19 mg/m ³
Québec	VEMP (OEL TWAEV)	5 ppm
Saskatchewan	OEL STEL	7.5 ppm
Saskatchewan	OEL TWA	5 ppm
Yukon	OEL STEL	38 mg/m ³
Yukon	OEL STEL	10 ppm
Yukon	OEL TWA	19 mg/m ³
Yukon	OEL TWA	5 ppm

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Color	: Clear red liquid
Odor	: Typical oily
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: 60 °C (140 °F) (Closed Cup)
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: 0.876
Solubility	: No data available
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity, Kinematic	: 2 – 3 cSt (@100°C (212°F))
Particle characteristics	: No data available

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VOC content

: 24.92 %

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Reacts violently with strong oxidizers. Increased risk of fire or explosion.

10.2. Chemical Stability:

Flammable liquid and vapor. May form flammable or explosive vapor-air mixture.

10.3. Possibility of Hazardous Reactions, Including those Associated with Foreseeable Emergencies:

Hazardous polymerization will not occur.

10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO₂). Oxides of phosphorus. Acrid smoke and irritating fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Likely routes of exposure: Dermal, Eye Contact, Inhalation, Oral.

Acute Toxicity (Oral): Not classified.

Acute Toxicity (Dermal): Not classified.

Acute Toxicity (Inhalation): Not classified.

LD50 and LC50 Data:

No additional information available

Skin Corrosion/Irritation: Causes skin irritation.

Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

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

Specific Target Organ Toxicity (Single Exposure): May cause drowsiness or dizziness.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Symptoms/Injuries After Inhalation: High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

Symptoms/Injuries After Skin Contact: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

Symptoms/Injuries After Eye Contact: Contact causes severe irritation with redness and swelling of the conjunctiva.

Symptoms/Injuries After Ingestion: Aspiration into the lungs can occur during ingestion or vomiting and may cause lung injury.

Chronic Symptoms: Suspected of damaging fertility or the unborn child.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)
LD50 Dermal Rabbit	> 2000 mg/kg (Source: NLM_CIP)
LC50 Inhalation Rat	> 5.2 mg/l/4h
o-Dichlorobenzene (95-50-1)	
LD50 Oral Rat	1516 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	> 10 g/kg (Source: NLM_CIP)
LC50 Inhalation Rat	9.2 mg/l (Exposure time: 6 h Source: JAPAN_GHS)
LC50 Inhalation Rat	14.04 ppm
2,6-Di-tert-butylphenol (128-39-2)	
LD50 Oral Rat	> 5000 mg/kg (Source: ECHA)
LD50 Dermal Rabbit	> 10 g/kg (Source: NLM_CIP)

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Phosphoric acid, tris(methylphenyl) esters (1330-78-5)	
LD50 Oral Rat	> 20000 mg/kg (Source: ECHA)
LD50 Dermal Rabbit	> 10000 mg/kg (Source: CHEMVIEW)
LC50 Inhalation Rat	> 5.2 mg/l/4h
Benzene, 1,4-dichloro- (106-46-7)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rat	> 6000 mg/kg (Source: NLM_HSDB)
LC50 Inhalation Rat	> 5.07 mg/l/4h
Methyl acrylate (96-33-3)	
LD50 Oral Rat	277 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	1243 mg/kg (Source: NLM_CIP)
LC50 Inhalation Rat	3.58 mg/l/4h
Propylene oxide (75-56-9)	
LD50 Oral Rat	520 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	950 mg/kg
LC50 Inhalation Rat	9.48 mg/l/4h
Ethylene oxide (75-21-8)	
LD50 Oral Rat	72 mg/kg (Source: JAPAN_GHS)
LC50 Inhalation Rat	800 ppm/4h
1,4-Dioxane (123-91-1)	
LD50 Oral Rat	5170 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	7600 mg/kg (Source: CHEMVIEW)
LC50 Inhalation Rat	46 mg/l (Exposure time: 2 h Source: JAPAN_GHS)
LC50 Inhalation Rat	32.5 mg/l/4h
1-Octene (111-66-0)	
LD50 Oral Rat	> 5 ml/kg (Source: ECHA)
LD50 Dermal Rabbit	> 10 g/kg (Source: OECD_SIDS)
LC50 Inhalation Rat	40.2 mg/l/4h
Phenol (108-95-2)	
LD50 Oral Rat	340 mg/kg (Source: JAPAN_GHS)
LD50 Dermal Rabbit	630 mg/kg
ATE US/CA (dust, mist)	0.50 mg/l/4h
o-Dichlorobenzene (95-50-1)	
IARC Group	3
Benzene, 1,4-dichloro- (106-46-7)	
IARC Group	2B
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Methyl acrylate (96-33-3)	
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Propylene oxide (75-56-9)	
IARC Group	2B
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Ethylene oxide (75-21-8)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.

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OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.
1,4-Dioxane (123-91-1)	
IARC Group	2B
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen, Evidence of Carcinogenicity.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
Phenol (108-95-2)	
IARC Group	3
National Toxicology Program (NTP) Status	Twelfth Report - Items under consideration.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Toxic to aquatic life with long lasting effects.

Petroleum distillates, hydrotreated light (64742-47-8)	
LC50 Fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: IUCLID)
LC50 Fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
o-Dichlorobenzene (95-50-1)	
LC50 Fish 1	8.23 – 10.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	0.74 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	5.8 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)
NOEC Chronic Crustacea	0.1 mg/l
2,6-Di-tert-butylphenol (128-39-2)	
EC50 - Crustacea [1]	0.45 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Phosphoric acid, tris(methylphenyl) esters (1330-78-5)	
LC50 Fish 1	0.1 – 0.22 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA)
EC50 - Crustacea [1]	0.25 mg/l
LC50 Fish 2	0.21 – 0.32 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
NOEC Chronic Algae	0.088 mg/l
Benzene, 1,4-dichloro- (106-46-7)	
LC50 Fish 1	18 – 50 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [1]	0.7 mg/l
LC50 Fish 2	4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
NOEC Chronic Crustacea	0.1 mg/l
Methyl acrylate (96-33-3)	
LC50 Fish 1	1.1 mg/l
EC50 - Crustacea [1]	2.2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1.81 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)
NOEC Chronic Crustacea	0.36 mg/l
Propylene oxide (75-56-9)	
LC50 Fish 1	215 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
EC50 - Crustacea [1]	350 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Ethylene oxide (75-21-8)	
LC50 Fish 1	73 – 96 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: EPA)
EC50 - Crustacea [1]	137 – 300 mg/l (Exposure time: 48 h - Species: Daphnia magna)
1,4-Dioxane (123-91-1)	

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LC50 Fish 1	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [1]	163 mg/l (Exposure time: 48 h - Species: water flea [Static])
LC50 Fish 2	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [semi-static])
1-Octene (111-66-0)	
LC50 Fish 1	3.2 – 10 mg/l
Phenol (108-95-2)	
LC50 Fish 1	11.9 – 50.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)
EC50 - Crustacea [1]	4.24 – 10.7 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 Fish 2	20.5 – 25.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)
EC50 - Crustacea [2]	10.2 – 15.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)
NOEC Chronic Fish	0.077 mg/l

12.2. Persistence and Degradability

Marvel Air Tool Oil	
Persistence and Degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative Potential

Marvel Air Tool Oil	
Bioaccumulative Potential	Not established.
Petroleum distillates, hydrotreated light (64742-47-8)	
BCF Fish 1	61 – 159
o-Dichlorobenzene (95-50-1)	
BCF Fish 1	90 – 260 (whole body w.w.)
Partition coefficient n-octanol/water (Log Pow)	3.433 (at 25 °C)
2,6-Di-tert-butylphenol (128-39-2)	
Partition coefficient n-octanol/water (Log Pow)	4.5 (at 24 °C)
Phosphoric acid, tris(methylphenyl) esters (1330-78-5)	
Partition coefficient n-octanol/water (Log Pow)	5.93
Benzene, 1,4-dichloro- (106-46-7)	
Partition coefficient n-octanol/water (Log Pow)	3.37 (at 25 °C (at pH 7))
Methyl acrylate (96-33-3)	
Partition coefficient n-octanol/water (Log Pow)	0.739 (at 25 °C)
Propylene oxide (75-56-9)	
Partition coefficient n-octanol/water (Log Pow)	< 1 (at 20 °C (at pH 6.8))
Ethylene oxide (75-21-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.3 (at 25 °C (at pH 7))
1,4-Dioxane (123-91-1)	
BCF Fish 1	0.3 – 0.7
Partition coefficient n-octanol/water (Log Pow)	-0.42
1-Octene (111-66-0)	
Partition coefficient n-octanol/water (Log Pow)	4.57 (at 25 °C)
Phenol (108-95-2)	

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BCF Fish 1	(17.5 dimensionless (whole body w.w.))
Partition coefficient n-octanol/water (Log Pow)	1.47 (at 30 °C (at pH 3-8))

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, and international regulations

Additional Information: Handle empty containers with care because residual vapors are flammable.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT

Proper Shipping Name : FLAMMABLE LIQUIDS, N.O.S.(Contains Petroleum distillates, hydrotreated light ; o-Dichlorobenzene)

Hazard Class : 3

Identification Number : UN1993

Label Codes : 3

Packing Group : III

Marine Pollutant : Marine pollutant

ERG Number : 128



14.2. In Accordance with IMDG

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.(Contains Petroleum distillates, hydrotreated light ; o-Dichlorobenzene)

Hazard Class : 3

Identification Number : UN1993

Label Codes : 3

Packing Group : III

EmS-No. (Fire) : F-E

EmS-No. (Spillage) : S-E

Marine pollutant : Marine pollutant



14.3. In Accordance with IATA

Proper Shipping Name : FLAMMABLE LIQUID, N.O.S.(Contains Petroleum distillates, hydrotreated light ; o-Dichlorobenzene)

Hazard Class : 3

Identification Number : UN1993

Label Codes : 3

Packing Group : III

ERG Code (IATA) : 3L



14.4. In Accordance with TDG

Proper Shipping Name : FLAMMABLE LIQUIDS, N.O.S.(Contains Petroleum distillates, hydrotreated light ; o-Dichlorobenzene)

Hazard Class : 3

Identification Number : UN1993

Label Codes : 3

Packing Group : III



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Marine Pollutant : Marine pollutant

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Marvel Air Tool Oil	
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Reproductive toxicity Health hazard - Skin corrosion or Irritation Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Aspiration hazard
Petroleum distillates, hydrotreated light (64742-47-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
o-Dichlorobenzene (95-50-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	1 %
2,6-Di-tert-butylphenol (128-39-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed Section 4 test rule under TSCA.
Phosphoric acid, tris(methylphenyl) esters (1330-78-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed Section 4 test rule under TSCA.
Benzene, 1,4-dichloro- (106-46-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a final TSCA section 4 test rule.
CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	0.1 %
Methyl acrylate (96-33-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %
Propylene oxide (75-56-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb
SARA Section 313 - Emission Reporting	0.1 %
Ethylene oxide (75-21-8)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	10 lb

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SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb
SARA Section 313 - Emission Reporting	0.1 %
1,4-Dioxane (123-91-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb
SARA Section 313 - Emission Reporting	0.1 %
1-Octene (111-66-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Phenol (108-95-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the United States SARA Section 302 Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 – 10000 lb
SARA Section 313 - Emission Reporting	1 %

15.2. US State Regulations

California Proposition 65



WARNING: This product can expose you to chemicals including Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Benzene, 1,4-dichloro- (106-46-7)	X			
Methyl acrylate (96-33-3)	X			
Propylene oxide (75-56-9)	X			
Ethylene oxide (75-21-8)	X	X	X	X
1,4-Dioxane (123-91-1)	X			

o-Dichlorobenzene (95-50-1)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Phosphoric acid, tris(methylphenyl) esters (1330-78-5)

U.S. - New Jersey - Right to Know Hazardous Substance List

Benzene, 1,4-dichloro- (106-46-7)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Methyl acrylate (96-33-3)

U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Massachusetts - Right To Know List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Propylene oxide (75-56-9)

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

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U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

Ethylene oxide (75-21-8)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

1,4-Dioxane (123-91-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

1-Octene (111-66-0)

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

Phenol (108-95-2)

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

15.3. Canadian Regulations

Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the Canadian DSL (Domestic Substances List)

o-Dichlorobenzene (95-50-1)

Listed on the Canadian DSL (Domestic Substances List)

2,6-Di-tert-butylphenol (128-39-2)

Listed on the Canadian DSL (Domestic Substances List)

Phosphoric acid, tris(methylphenyl) esters (1330-78-5)

Listed on the Canadian DSL (Domestic Substances List)

Benzene, 1,4-dichloro- (106-46-7)

Listed on the Canadian DSL (Domestic Substances List)

Methyl acrylate (96-33-3)

Listed on the Canadian DSL (Domestic Substances List)

Propylene oxide (75-56-9)

Listed on the Canadian DSL (Domestic Substances List)

Ethylene oxide (75-21-8)

Listed on the Canadian DSL (Domestic Substances List)

1,4-Dioxane (123-91-1)

Listed on the Canadian DSL (Domestic Substances List)

1-Octene (111-66-0)

Listed on the Canadian DSL (Domestic Substances List)

Phenol (108-95-2)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest : 09/09/2025
Revision

Marvel Air Tool Oil

Safety Data Sheet

According To Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules And Regulations And According To The Hazardous Products Regulation (December 15, 2022).

Other Information

: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2022-272.

GHS Full Text Phrases:	
H220	Extremely flammable gas
H224	Extremely flammable liquid and vapor
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H227	Combustible liquid
H280	Contains gas under pressure; may explode if heated
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye 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.
H341	Suspected of causing 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
H401	Toxic to aquatic life
H402	Harmful 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

NFPA Health Hazard

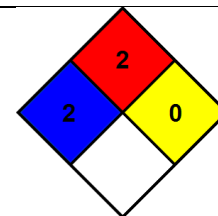
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA Fire Hazard

: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.

NFPA Reactivity Hazard

: 0 - Material that in themselves are normally stable, even under fire conditions.



HMIS III Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 2 Moderate Hazard

Physical

: 0 Minimal Hazard

Marvel Air Tool Oil

Safety Data Sheet

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Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)	FOOD_JOURN: Food Research Journal (1956)
AU_WES: Australia WES	IARC: The International Agency for Research on Cancer
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)	IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles
EC_RAR: European Commission Renewal Assessment Report	IUCLID: International Uniform Chemical Information Database
EC_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits	JAPAN_GHS: Japan GHS Basis for Classification Data
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports	JP_J-CHECK: Japan J-Check
ECHA_API: European Chemicals Agency API	KR_NIER: South Korea National Institute of Environmental Research Evaluations
ECHA_RAC: ECHA Committee for Risk Assessment	NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme
EFSA: European Food Safety Authority	NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)
EPA: U.S. Environmental Protection Agency	NLM_CIP: National Library of Medicine ChemID plus database
EPA_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)	NLM_HSDB: National Library of Medicine Hazardous Substance Data Bank
EPA_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)	NLM_PUBMED: National Library of Medicine PubMed database
EPA_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)	NTP: National Toxicology Program
EPA_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)	NZ_CCID: New Zealand Chemical Classification and Information Database
EU_CLH: European Union Harmonised Classification and Labelling Proposal	OECD_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)
EU_RAR: European Union Risk Assessment Report	OECD_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)
	WHO: World Health Organization

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NA GHS SDS 2024 (Can, US)