Marvel Mystery 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).

Revision Date: 11/17/2025 Date of Issue: 10/14/2019 Version: 2.1

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: Marvel Mystery Oil

Product Code: MM12R (50094), MM13R (50095), MM13RC (50096), MM14R (50097) – See section 16 for discontinued SKU's

Formula Number: Not specified

Product Code (SKU): Not specified

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
1-800-255-3924 (US and Canada)
1-813-248-0585 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Flammable liquids, Category 4	H227
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitization, Category 1A	H317
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) :

GHS07

GHS08

Signal Word (GHS-US/CA) : Danger

Hazard Statements (GHS-US/CA) : H227 - Combustible liquid.
H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
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.

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.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear eye protection, face protection, protective clothing and protective gloves.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or a doctor.
P302+P352 - IF ON SKIN: Wash with plenty of 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.
P333+P313 - If skin irritation or rash 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 water spray, fog, alcohol-resistant foam, carbon dioxide, dry chemical powder to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of local, regional, national, territorial, provincial, and international regulations. 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	(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

	petroleum hydrocarbons / Hydrocarbons, C11-14, n-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 approxi mately 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			
Methyl salicylate	Benzoic acid, 2-hydroxy-, methyl ester / o-Hydroxybenzoic acid, methyl ester / Methyl o-hydroxybenzoate / Salicylate, methyl / Salicylic acid, methyl ester / Wintergreen oil / METHYL SALICYLATE / Methyl 2-hydroxybenzoate	(CAS-No.) 119-36-8	0.1 - 1	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 3, H412
Phosphoric acid, tris(methylphenyl) esters	Phosphoric acid, tris(methylphenyl) ester / Phosphoric acid, tritolyl ester / Tricresyl phosphate / Tris(methylphenyl) phosphate / Tritolyl 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
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-	(CAS-No.) 106-46-7	< 0.1	Eye Irrit. 2, H319 Carc. 2, H351

	Dichlorobenzene / Dichlorobenzene, 1,4- / PDCB			Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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. Wash affected area with soap and water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.

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.

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

4.2. Most Important Symptoms and Effects Both Acute and Delayed

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

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. May cause an allergic skin reaction.

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. Repeated and prolonged exposure may cause an allergic skin reaction.

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 (CO_2). 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: Combustible liquid. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Will float and can be reignited on water surface.

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, CO_2). Phosphorus oxides. Chlorine compounds.

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

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: Eliminate ignition sources first, then ventilate the area. 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.

6.2. Environmental Precautions

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

6.3. Methods and Materials for Containment and Cleaning Up

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

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

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: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only non-sparking tools. Take precautionary measures against static discharge. Do not get in eyes, on skin, or on clothing. 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. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.

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

Maximum Storage Period: Shelf life is considered to be 7 – 10 years when properly stored.

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/m³

USA OSHA	OSHA PEL C	50 ppm
USA NIOSH	NIOSH REL C	300 mg/m³
USA NIOSH	NIOSH REL C	50 ppm
USA IDLH	IDLH	200 ppm
Alberta	OEL STEL	300 mg/m³
Alberta	OEL STEL	50 ppm
Alberta	OEL TWA	150 mg/m³
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
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/m³
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/m³
USA OSHA	OSHA PEL TWA	75 ppm
USA IDLH	IDLH	150 ppm
Alberta	OEL TWA	60 mg/m³
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

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. 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. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. 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: In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

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
Odor	:	Oil of wintergreen - minty
Odor Threshold	:	No data available
pH	:	No data available
Evaporation Rate	:	No data available
Melting Point	:	-51 °C (-59.8 °F)
Freezing Point	:	No data available
Boiling Point	:	No data available
Flash Point	:	73.9 °C (165.02 °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	:	Water: Insoluble
Partition Coefficient: N-Octanol/Water	:	No data available
Viscosity, Kinematic	:	2 – 3 cSt @ 100 °C (212 °F)
Particle characteristics	:	No data available
VOC content	:	24.31 %

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

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

10.2. Chemical Stability:

May form flammable or explosive vapor-air mixture. Combustible liquid.

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, CO_2). Phosphorus oxides. Chlorine compounds.

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: May cause an allergic skin reaction.
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. May cause an allergic skin reaction.
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. Repeated and prolonged exposure may cause an allergic skin reaction.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

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

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
LC50 Inhalation Rat	6 mg/l/4h

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
LC50 Inhalation Rat	5.2 mg/l/4h

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

Methyl salicylate (119-36-8)	
LD50 Oral Rat	887 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	> 5000 mg/kg (Source: NLM_CIP)

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.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

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

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

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

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)

Methyl salicylate (119-36-8)	
NOEC Chronic Algae	0.79 mg/l

12.2. Persistence and Degradability

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

12.3. Bioaccumulative Potential

Marvel Mystery Oil	
Bioaccumulative Potential	Not established.

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)

Benzene, 1,4-dichloro- (106-46-7)	
Partition coefficient n-octanol/water (Log Pow)	3.37 (at 25 °C (at pH 7)

Phosphoric acid, tris(methylphenyl) esters (1330-78-5)	
Partition coefficient n-octanol/water (Log Pow)	5.93

Petroleum distillates, hydrotreated light (64742-47-8)	
BCF Fish 1	61 – 159

Methyl salicylate (119-36-8)	
Partition coefficient n-octanol/water (Log Pow)	2.55

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, territorial, provincial, 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 : COMBUSTIBLE LIQUID, N.O.S.(Petroleum distillates, hydrotreated light)
Identification Number : NA1993
Packing Group : III

14.2. In Accordance with IMDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Petroleum distillates, hydrotreated light)
Hazard Class : 9
Identification Number : UN3082
Label Codes : 9

Packing Group : III
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F

14.3. In Accordance with IATA

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Petroleum distillates, hydrotreated light)
Hazard Class : 9
Identification Number : UN3082
Label Codes : 9

Packing Group : III
ERG Code (IATA) : 9L

14.4. In Accordance with TDG

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Petroleum distillates, hydrotreated light)
Hazard Class : 9
Identification Number : UN3082

Label Codes : 9

Packing Group : III

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Marvel Mystery 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 - Aspiration hazard Health hazard - Serious eye damage or eye irritation Health hazard - Respiratory or skin sensitization

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 %

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 %

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.

Petroleum distillates, hydrotreated light (64742-47-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Methyl salicylate (119-36-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

15.2. US State Regulations

California Proposition 65

WARNING: This product can expose you to Benzene, 1,4-dichloro-, which is known to the State of California to cause cancer. 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			

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

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

Phosphoric acid, tris(methylphenyl) esters (1330-78-5)
U.S. - New Jersey - Right to Know Hazardous Substance List

Methyl salicylate (119-36-8)
U.S. - Pennsylvania - RTK (Right to Know) List

15.3. Canadian Regulations

o-Dichlorobenzene (95-50-1)
Listed on the Canadian DSL (Domestic Substances List)

Benzene, 1,4-dichloro- (106-46-7)
Listed on the Canadian DSL (Domestic Substances List)

Phosphoric acid, tris(methylphenyl) esters (1330-78-5)
Listed on the Canadian DSL (Domestic Substances List)

Petroleum distillates, hydrotreated light (64742-47-8)
Listed on the Canadian DSL (Domestic Substances List)

Methyl salicylate (119-36-8)
Listed on the Canadian DSL (Domestic Substances List)

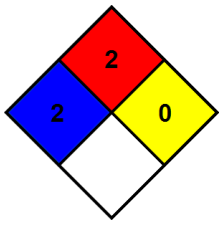
SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 11/17/2025

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:	
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
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
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H401	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

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 * Chronic - Chronic (long-term) health effects may result from repeated overexposure
Flammability	:	2 Moderate Hazard
Physical	:	0 Minimal Hazard

Glossary of Data Source Abbreviations

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