

SAFETY DATA SHEET

Outdoor Defense Oil

Issue Date: 15-Feb-2017 Revision Date: 31-Jan-2023 Version 3

Section 1. IDENTIFICATION

Product Identifier

Product Form: Substance

Substance Name: Outdoor Defense Oil

SDS# ODO

Synonyms: Pine Oil, Hydrocarbons, Terpene processing, by product, Tung Oil, China Wood Oil, Zinc Stearate

Use of the substance/mixture: Solvents and Cleaners **Name, Address and Telephone of the Responsible Party**

Supplier Address: Real Milk Paint, LLC 126 Commerce Dr. Hohenwald, TN 38462 www.realmilkpaint.com

Emergency Telephone Number

Chemtel 24 hours (within US only) 800-255-3924 Chemtel 24 hours (outside continental US) 813-248-0585

Section 2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

Physical Hazards: Flammable Liquids (3)

Health Hazards: Eye Irritations (2A), Skin Irritations (2),

Skin Sensitizer (1A), Aspiration Toxicity (1)

Environmental Hazards: Acute Aquatic Toxicity (1), Chronic Aquatic Toxicity

GHS Labeling

Signal Word: DANGER Hazard Statements:

H226 - Flammable liquid and vapor

H304 – May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H317 – May cause an allergic skin reaction

H411 – Toxic to aquatic life with long lasting effects

Precautionary Statements:

P280 – Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302 + P352 - IF ON SKIN: Wash with soap and water.

P305 + P351 + P38: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so – continue rinsing affected eye(s)

P331: DO NOT induce vomiting

P333 + P313: If skin irritation or rash occurs, get medical attention/advice.

P337 + P313: If eye irritation persists get medical attention/advice

P501 – Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3. COMPOSTION/INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS No.	Weight	Health Hazards
Tung Oil	China Wood Oil	8001-20-5	≈50%	None
Zinc Oxide	Zinc Oxide	1314-13-2	≈3%	None
Pine Oil	Hydrocarbons Terpene processing, by product	68956-56-9	≈50%	Aquatic Acute 2: H401; Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Eye Irrit. 2A: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Danger
(Contained in Pine Oil)	Geraniol	106-24-1	<1%	Aquatic Acute 3: H402; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Danger
(Contained in Pine Oil)	Linalool	78-70-6	<1%	Aquatic Acute 3: H402; Eye Irrit. 2A: H319; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1B: H317 - Warning
(Contained in Pine Oil)	Citral	5392-40-5	<1%	Acute Tox. 5: H313; Aquatic Acute 2: H401; Flam. Liq. 4: H227; Skin Irrit. 2: H315; Skin Sens. 1: H317 - Warning

Section 4. FIRST AID MEASURES

First Aid Measures

General Advice: As with any chemical, employees should thoroughly wash hands with soap and water

after handling this material. If health disorder happens, call for medical help

immediately. Keep good industrial hygiene measures.

Eye Contact: Remove any contact lenses at once. Flush eyes with water for at least 15 minutes. If

irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water. Remove any soiled

clothing if necessary.

Inhalation: Remove persons to fresh air and keep at rest in comfortable position for breathing. See

a physician if breathing difficulty persists.

Ingestion: Seek medical attention or contact a poison control center for advice. **DO NOT** induce

vomiting. Rinse mouth with water. DO NOT administer anything by mouth to an

unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms: Skin irritation and skin sensitization. The product may be fatal if swallowed and enters

airways. Inhalation may cause irritation of the nose, throat, and respiratory tract.

Section 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Polyvalent powder fire extinguishers (ABC powder), Water fog or spray,

Foam, Dry Powder, Carbon Dioxide (CO₂)

Unsuitable Extinguishing Media: If water must be used, use as a spray only to lower temperature.

Hazardous Decomposition of Products: FROM FIRE: Smoke, Carbon Dioxide, and Carbon Monoxide

Advice for Firefighters:

Self contained positive pressure breathing apparatus and protective clothing should be worn when fighting fires involving chemicals. Vapors may be irritating to the eyes, skin, and respiratory tract. Firefighters should wear self-contained breathing apparatus (SCBA) and full firefighting turnout gear.

Precautions for Fire Fighters

DANGER – FLAMMABLE LIQUID! Vapors may cause flash fires. May cause eye or skin irritation. Harmful or fatal if swallowed. Vapors and spray mist are harmful if inhaled. May produce a floating fire hazard.

Unusual Fire Hazard or Explosion

Containers may explode from internal pressure if confined to fire. Cool with water. Keep unnecessary people away. Exercise care when disposing of rags contaminated with the product. Use normal precautions appropriate for oily rags.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

ELIMINATE ALL SOURCES OF IGNITION. Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator. Wear appropriate personal protective equipment when cleaning up spills. Eliminate potential sources of ignition. Handling equipment must be bonded and grounded to prevent sparking.

Environmental Precautions

This product is a marine pollutant and is very toxic to aquatic organisms. Do not discharge into lakes, streams, ponds, or public waters.

Methods and Material for Containment and Cleanup

Exercise caution. Eliminate potential sources of ignition. Use spark proof tools and explosion proof equipment. Dike and contain spill. Small spills may be absorbed by sand or oil absorbing materials. Large spills should be collected by pumping into closed containers for recovery or disposal. Spills over water will float and may be collected by oil absorbents and/or by skimming.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear chemical safety glasses or goggles and chemically resistant gloves. A chemically resistant apron may be used to protect clothing. A respirator may be worn to prevent breathing spray and mists or heated fumes. Take precautionary measures against static discharges.

Conditions for Safe Storage, Including any Incompatibilities

NO Smoking. Store in original container, preferably in a cool, ventilated, fire resistant building. Avoid heat, sparks, and open flames. Empty containers may retain product residues (vapor, liquid, or solid) all label precautions must be observed.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The following information is given as general guidance

Exposure Guidelines

Exposure Limit: d-Limonene: 8h TWA=30 ppm (AIHA Standard)

Engineering Controls: Normal room ventilation is usually adequate. Provide exhaust ventilation or other

engineering controls to keep the airborne concentration below any regulated limits. Mechanical ventilation may be necessary at elevated temperatures to control odors.

Personal Protective Equipment (PPE)

Eye Protection: Wear chemical safety glasses, goggles, or face shield. Provide eye bath near work

site.

Skin Protection: Wear chemically resistant rubber gloves and apron to minimize exposure.

Respiratory Protection: A respirator is not normally required. If vapor concentration is high, use a NIOSH

approved organic vapor respirator or a properly fitted, air purifying or air fed

respirator complying with an approved safety standard.

Personal Hygiene Measures: When using do not eat or drink. Wash hands and other exposed areas of skin with

soap and water after handling the product.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State:LiquidOdor:Astringent AromaAppearance:Colorless to Pale Yellow Odor Threshold:Not Determined

Color: Clear to Yellowish

Property	Values	Remarks / Methods
Physical State	Liquid	
рН	N/A	
Melting Point/Freezing Point	Not Determined	
Boiling Point	Not Determined	
Flash Point	Not Determined	
Evaporation Rate	Not Determined	
Flammability (solid,gas)	Not Determined	
Upper Flammability Limits	Not Determined	
Lower Flammability Limits	Not Determined	
Vapor Pressure	Not Determined	
Specific Gravity	Not Determined	
Refractive Index	Not Determined	
Water Solubility	Insoluble	

Solubility in Other Solvents Not Determined **Partition Coefficient** Not Determined **Autoignition Temperature** Not Determined **Decomposition Temperature** Not Determined **Kinematic Viscosity** Not Determined **Dynamic Viscosity** Not Determined **Explosive Properties** Not Determined **Oxidizing Properties** Not Determined Density Not Determined **Volatile Organic Compound (VOC)** Not Determined

Other information: None listed.

Note: These properties represent a typical sample of the product, but actual values may vary. Certificates of Analysis and Specification Sheets are available upon request.

Section 10. STABILITY AND REACTIVITY

Reactivity: Not Determined

Chemical Stability: Chemical is stable and not reactive under conditions of normal use.

Hazardous Polymerization: Hazardous polymerization will not occur.

Conditions to Avoid: Prolonged or excessive heat and/or exposure to air may cause non-hazardous

decomposition and/or oxidization.

Incompatible Materials: May react with strong acids, bases, and oxidizing agents.

Hazardous Decomposition Products: Incomplete decomposition may produce carbon monoxide. Ultimate

decomposition products are carbon dioxide and water.

Section 11. TOXICOLOGICAL INFORMATION

Information on likely Routes of Exposure

Target Organs:Eyes. Skin.Likely Routes of Exposure:Eye/skin contactMedical Conditions AggravatedNo Known

by over exposure:

Symptoms Related to Over exposure: Prolonged exposure may cause skin irritation and/or sensitization.

Relevant Hazards			
Acute Toxicity	Limonene: LD ₅₀ (rat): > 5000 mg/kg		
	Dipentene: LD_{50} (rat): > 3500 mg/kg		
Dermal Contact	Limonene: LD ₅₀ (rat): > 5000 mg/kg		
	Dipentene: LD_{50} (rat): > 3500 mg/kg		
Eye Contact	Contact with the undiluted material may cause eye		
	irritation.		
Respiratory or Skin Sensitization	Product may contain trace amounts of oxidized material		
	which are allergenic to sensitive individuals. Avoid		
	repeated or prolonged contact with skin.		
	repeated or prototiged contact with skill.		

Germ Cell Mutagenicity	Not determined for dipentene. Refere to WHO Concise International Chemical Assessment Document 5 for		
	Limonene.		
	Limonene: mouse lymphoma L5178Y test system, did not		
	induce gene mutations.		
	Limonene: AMES Test; Negative		
Carcinogenicity	No component of the product is listed by IARC, ACGIH		
	and NTP		
Reproductive Toxicity	Not Determined		
STOT – Single Exposure	Not Determined		
STOT – Repeated Exposure	Not Determined		
Aspiration Hazard	Component categorized as a Cat 1 Aspiration Hazard		

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity: Product is a marine pollutant and is very toxic to aquatic organisms.

Persistence/Degradability: 92.7% in 21 days per method CEC L33T82.

Bioaccumulation Potential: Not Determined

Mobility in Environment: Not Determined

Section 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal Methods: This material, if discarded, would be considered a hazardous waste by

EPA regulations 40 CFR 261 due to flammability. Dispose of this material at a local, state, or federally approved landfill, incinerator or recovery facility. User must determine proper disposal method and classification when material is declared a waste. User must determine proper

recycling of container if applicable.

Safe Handling of Wastes: Refer to Section 8 for information pertaining to personal protective

equipment and exposure controls when handling this material for

disposal.

General Note: All disposal or recycling of substance or packaging should be in accordance with all national, state, and local

regulations.

Section 14. TRANSPORT INFORMATION

This information is given as general guidance. Please refer to current shipping paper for most up to date shipping information, including exemptions and special circumstances.

US DOT UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant

ICAO/IATA UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant

IMO/IMDG UN2319, Terpene Hydrocarbons, N.O.S. (Limonene), 3, PGIII, Marine Pollutant

Shipping Label Flammable Liquid (Cat 3), Marine Pollutant (Environmental Cat 1)

Exceptions US DOT Non-Bulk Packaging: Refer to 49 CFR §173.150 & §171.4

Section 15. REGULATORY INFORMATION

Chemical Inventories List

USA Compliant
Canada Compliant
Europe Not Determined
Australia Not Determined
Korea Not Determined
Philippines Not Determined
Japan Not Determined

USA Federal and States Information: OSHA – Hazardous by definition of 29 CFR 1910.1200 (Flammability)

SARA 311/312 Hazard Category – Fire Hazard and Immediate (Acute)

Health

Section 16. OTHER INFORMATION

This product was produced with Good Manufacturing Practices. Entirely of natural origin, and to the best of our knowledge contains no artificial flavors, sulfites, nitrites, or pesticide residue exceeding tolerances established by the U.S. FDA. It has not been adulterated or misbranded. It does NOT contain lead, cadmium, mercury, or hexavalent chromium or come in contact with these chemicals since it is a derived essential oil produced by steam/vacuum distillation. Further, it is packaged in food grade containers with inert liners that do NOT contain lead, cadmium, mercury, or hexavalent chromium.

Full R-phrases R10 – Flammable

R38 – Irritating to skin

R43 – May cause sensitization by skin contact

R51/53 — Dangerous to the environment. Toxic to aquatic organisms; may cause long term

adverse effects in the aquatic

environment.

R65 – Harmful: may cause lung damage if swallowed

Full S-phrases S24 – avoid contact with skin

S25 – Avoid contact with eyes

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice

S37 – Wear suitable gloves

S61 – Avoid release to the environment. Refer to special instructions/safety data sheets

S62 – If swallowed, do not induce vomiting: seek medical advice immediately and show this

container or label.

Abbreviations & Acronyms:

STOT (Specific Target Organ Toxicity)

ACGIH – American Conference of Governmental Industiral Hygienists

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

AIHA - American Industiral Hygiene Association

BHT - Butylated Hydroxytoluene

CAS # - Chemical Abstracts Service

CFR - United States Code of Federal Regulations

DOT – United States Department of Transportation

EC# - European Commission (aka EINECS, European Inventory of Existing Commercial Chemical Substances.)

ECHA - European Chemicals Agency

FDA – United States Food and Drug Administration

GHS – Globally Harmonized System of Classification and Labeling of Chemicals

GRAS – Generally Recognized as Safe

IARC – International Agency for Research on Cancer

ICAO - International Civil Aviation Organization

IMDG – International Maritime Code for Dangerous Goods

NFPA - National Fire Protection Association

NIOSH – United States National Institute for Occupational Safety and Health

NTP - United States National Toxicology Program

OSHA – United States Occupational Health and Safety Administration

RID – Regulations Concerning the International Transport of Dangerous Goods by Rail

TWA – Time Weighted Average

Caution: The user should conduct his/her own experiments and establish proper procedures and control before attempting use on critical parts.

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	1	2	0	Not Determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	2	0	G



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Revision Note: Composition Clarification/Update

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The Real Milk Paint Co. assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, The Real Milk Paint Co. assumes no responsibility for injury caused by abnormal use of this material even if

reasonable safety procedures are followed. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

End of Safety Data Sheet