MSDS – Pure Tung Oil

Twisp-Environmental, POB 920, Twisp, WA 98856

1. PRODUCT IDENTIFICATION

Product Name: Tung Oil, Raw
Synonyms: Chinawood Tree Oil

2. INGREDIENTS

CAS No. : 8001-20-5 Tung Oil, Raw 100%

3. HAZARD IDENTIFICATION

NFPA Codes: Health: 1 Fire: 1 Reactivity: 0
(Degree of Hazard: 4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant)

Immediate (Acute) Health Effects:

Inhalation: No hazard in normal use.

Skin Contact: Substance may cause slight skin irritation.

Eye Contact: Can be an irritant.

Skin Absorption: A single exposure is not likely to result in the product being absorbed through the skin in harmful amounts.

Ingestion: May cause vomiting. Can cause abdominal discomfort.

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data available. No data.

Reproductive and Developmental Toxicity: No information available.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.

Inhalation: Upon prolonged and/or repeated exposure, no hazard in normal use.

Skin Contact: Upon prolonged and/or repeated exposure, no hazard in normal use.

Eye Contact: No data. Upon prolonged and/or repeated exposure, no hazard in normal use.

Target Organ Chronic Toxicity: No organs known to be damaged from exposure to this product.

4. FIRST AID

Inhalation: Remove to fresh air. No first aid expected to be needed. This material does not present a hazard if inhaled. Remove individual to fresh air after an airborne exposure if any symptoms develop, as a precautionary measure.

Eyes: Use an eye wash to remove material from your eye regardless of the level of hazard.

Skin Contact: Wash with soap and water.

Ingestion: Minimal risk of harm to adults if swallowed in small quantity. Do not induce vomiting. Seek medical attention. Provide medical care provider with this MSDS.

5. FIRE FIGHTING MEASURES

Flammability Summary:

Fire Hazards: Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
Extinguishing Media: Sand. Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires.

Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do Not direct a stream of water into the hot burning liquid.

Fire Fighting Instructions: Use methods for the surrounding fire. Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

No health affects expected from the clean-up of this material if contact can be avoided.

No special spill clean-up considerations. Collect and discard in regular trash.

7. HANDLING AND STORAGE

Handling: Avoid unnecessary exposure.

Storage: Store in a cool dry place away from ignition sources. No special requirements.

8. ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls: Check ventilation codes. No exposure limits exist for the constituents of this product. No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.

9. PHYSICAL DATA

Physical State: CLEAR AMBER LIQUID
Odor: OILY HYDROCARBON
Solids Vol %: 100.0000
Solids Wt %: 100.0000
Material VOC lbs/gal: 0.0000
Material VOC gms/l: 0.0000
Coatings VOC lbs/gal: 0.000
Coatings VOC gms/l: 0.00
Weight per gallon: 7.8035

10. STABILITY AND REACTIVITY

Stability Information: Stable. Stable under normal conditions.
Conditions to Avoid: Caustic amines, alkanoamines and inorganic acids. None known.
Chemical Incompatibility: Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data available

12. ECOLOGICAL INFORMATION

This material is not expected to be harmful to the ecology.

13. DISPOSAL CONSIDERATIONS

Spent or discarded material is not expected to be a hazardous waste.

Soak up spilled material with an inert non-cumbustible material such as sand, clay, etc.

Mixing spent or discarded material with other materials may render the mixture hazardous. Perform a hazardous waste determination on mixtures.

Air oxidation of material can cause it to spontaneously ignite. Spread oil rags to dry without contact with each other, or soak in water and then seal without air in plastic bags before disposal.

Dispose of in a landfill. Disposal is not likely to be regulated. No chemicals subject to land disposal restrictions.

14. TRANSPORTATION INFORMATION - DOT NON REGULATED

IMPORTANT: While the descriptions, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you perform an assessment to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including fitness for a particular purpose, are made regarding products described, data or information set forth.

Twisp Environmental, April 12, 2009

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements

U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)
HOPE'S 100% TUNG OIL.

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

Section I

Manufacturer's Name The HopeCo., Inc.	Emergency Telephone Number 800 424 9300
Address (Number, Street, City, State, and ZIP Code) 12777 Pennridge Dr.	Telephone Number for Information 314 739 7254
Bridgeton, MO 63044	Date Prepared 7 20 93
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Raw Tung Oil is not a hazardous material under current Department of Labor definitions.				

Section III — Physical/Chemical Characteristics

Boiling Point Gels when heated		Specific Gravity (H_2O = 1) 0.935-0.938 @ 25/25°C	
Vapor Pressure (mm Hg.) Less than 0.001mm		Melting Point NA	
Vapor Density (AIR = 1) NA		Evaporation Rate (Butyl Acetate = 1) Zero	

Solubility in Water: Insoluble — Percent Volatile by Volume: Zero

Appearance and Odor: Light to clear - odorless — Molecular weight - Approx. 900

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
525°F (Open Cup) Auto ignition temp 855°F	NA	NA	NA

Extinguishing Media: Foam or CO_2

Special Fire Fighting Procedures: Type 1 - NFPA Severity Code - 1

Unusual Fire and Explosion Hazards: Possible danger or spontaneous combustion if in contact with combustible absorbents such as rags or sawdust.

Hope's 100% Tung Oil Page 2

Section V — Reactivity Data

Stability			Conditions to Avoid
	Unstable		
	Stable	X	

Incompatibility (*Materials to Avoid*): Strong oxidizers, caustic, amines, alkanolamines, inorganic acids.

Hazardous Decomposition or Byproducts: Unknown if any - Decomposes only at very high temperatures.

Hazardous Polymerization			Conditions to Avoid
	May Occur		
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (*Acute and Chronic*): A mild dermatitis may occur with prolonged contact if individual is sensitive; . Possible nausea upon ingestion.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?
NA

Signs and Symptoms of Exposure: NA

Medical Conditions Generally Aggravated by Exposure: NA

Emergency and First Aid Procedures: Wash thoroughly with soap and water

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled: No hazard. Recover as much as possible. Absorb residue with clay or other mineral absorbent. Dispose in accordance with local, state and federal regulations.

Waste Disposal Method: As above, bury or incinerate in accordance with local, state and federal regulations.

Precautions to Be Taken in Handling and Storing: Store in clean tanks, otherwise, no special precautions.

Other Precautions: Avoid slipping in spillage.

Section VIII — Control Measures

Respiratory Protection (*Specify Type*): NA

Ventilation		
	Local Exhaust: Normal plant ventilation	Special: NA
	Mechanical (*General*): as above	Other: NA

Protective Gloves: Rubber or Neoprene

Eye Protection: Goggles as guard against splashing.

Other Protective Clothing or Equipment: Not required

Work/Hygienic Practices: NA

* USGPO: 1988-491-529/45775