

Material Safety Data Sheet for Half & Half (*Pure Tung Oil and Citrus Solvent*)

Distributed by:
Real Milk Paint Co., LLC
126 Commerce Dr
Hohenwald, TN 38462
Phone: 215-538-3886

Emergency Telephone Numbers:
24 hrs. Chem-Tel 800-255-3924 (within continental US)
24 hrs. 813-248-0585 (collect) (outside continental US)

Revised: June 2015

SECTION 1: IDENTIFICATION

MANUFACTURER:
REAL MILK PAINT CO., LLC
126 COMMERCE DR.
HOHENWALD, TN 38462

TRADE NAME: Half & Half

CAS# 8001-20-5 and 94266-47-4

OSHA HCS Hazard(s): Flammable Liquid. Skin and eye irritant

HMIS/NEPA HAZARD IDENTIFICATION SYSTEM: H-O F-2 R-0 P-B

EC Classifications:

XI	Irritant
R36	Irritating to eyes.
R38	Irritating to skin.
S24	Avoid contact with skin.
S25	Avoid contact with eyes.

SECTION 2: HAZARDOUS INGREDIENTS

RAW TUNG OIL IS NOT A HAZARDOUS MATERIAL, but when mixed with CITRUS SOLVENT becomes watch for these attributes:

Emergency Overview:

Appearance:	Colorless to pale yellow liquid
Odor:	Fresh citrus orange
Risk Summary	Moderate eye and skin irritant. This substance is flammable and will sustain combustion at temperatures above its flashpoint. Avoid heat, sparks and open flames.

Potential Health Effects:

Inhalation	Vapors may cause respiratory passage irritation in confined spaces. No known long-term hazards.
Eyes:	Irritating to eyes
Skin:	Irritating to skin
Ingestion:	Will be irritating to tissues. May be harmful or fatal if swallowed in sufficient quantity. See section 11 (Toxicological information) for further information.
Chronic:	Not considered a carcinogen by NTP, IARC, or OSHA. No known

chronic indications.

Environmental Hazards:
Marine Pollutant

SECTION 3: PHYSICAL DATA

BOILING RANGE: 154 degrees C (310 degrees F)

VAPOR DENSITY: HEAVIER THAN AIR

PERCENT VOLATILE BY VOLUME: N/A

WEIGHT PER GALLON: APPROXIMATELY 7.5 LBS.

APPEARANCE: CLEAR TRANSPARENT LIQUID – AMBER TO LIGHT BROWN

SPECIFIC GRAVITY @25 C 0.933 – 0.938

FLASHPOINT: 48 degrees C (115 degrees F) TCC

ODOR: Fresh citrus orange.

OXIDIZING PROPERTIES: This substance combusts in the presence of strong oxidizers.

pH: None water-soluble.

PHYSICAL STATE: Liquid

SOLUBILITY IN WATER: less than 0.1 %.

VAPOR PRESSURE: 2 mmHg at 20 degrees C.

TOXICOLOGICAL INFORMATION

Target Organs:	Eyes and skin.
Routes of Entry:	Eye and skin contact.
Acute Toxicity:	LPR-Muss TD (LO): 4800 mg/kg/BW-I: ETA. ORL-Muss TD (LO): 67g/kg38W-I: ETA.
Chronic Toxicity:	No known chronic indications.

ECOLOGICAL INFORMATION

Biodegradability:	Not determined. Related chemicals are known to be biodegradable.
Aquatic Toxicity:	Marine Pollutant. This substance is immiscible with water. This substance is known to evaporate quickly and biodegradable and should not cause long term effects.
Bioaccumulation Potential:	Not determined. Related chemicals are known to be non-accumulating in the environment

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATIONS: Flashpoint 48 degrees Celsius (115 degrees Fahrenheit) TTC.
Vapors can combust and liquids can burn when temperatures reach or exceed the flashpoint.

FLASH POINT: ABOVE 250 DEGREES F

EXTINGUISHING MEDIA: Sand, Carbon dioxide, dry chemical, foams

Fire Fighting Instructions: Use CO₂, foam or dry chemical. Use water as a spray only to lower temperature. This substance floats on water. Treat as an oil fire.

UNUSUAL FIRE & EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED, ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. AS WITH ALL VEGETABLE OILS, RAGS, STEEL WOOL OR WASTE SOAKED WITH OIL, MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER USE, PLACE THE OIL SOAKED MATERIAL IN A SEALED WATER-FILLED METAL CONTAINER.

SECTION 5: HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE: A MILDDERMATITIS MAY OCCUR WITH PROLONGED CONTACT IF INDIVIDUAL IS SENSITIVE; POSSIBLE NAUSEA UPON INJECTION.

EMERGENCY & FIRST AID PROCEDURES: WASH THOROUGHLY WITH SOAP & WATER

Inhalation:	Remove person to a ventilated area. See a physician if breathing difficulty persists.
Eyes:	Remove contact lenses. Flush with water for at least 15 minutes. See a physician if irritation persists.
Skin:	Remove contaminated clothing. Wash affected areas with soap and water. See a physician if irritation persists.
Ingestion:	Drink lots of water to dilute substance. See a physician.

SECTION 6: FIRST AID

Eye contact: Immediate flush eyes with large amounts of water for at least 15 minutes. Speed and thoroughness are critical for eye exposure period. Seek medical attention immediately.

Skin contact: Wash with water for at least 15 minutes. Remove contaminated clothing. Do not apply oils or ointments unless directed by a physician. Seek medical attention immediately.

Inhalation: Remove to fresh air immediately. If breathing is difficult have a trained person administer oxygen. If breathing stops, give mouth to mouth resuscitation. Seek medical attention immediately.

Congestion: Dilute with large quantities of milk or water. Vomiting may occur, but should not be induced. Seek medical attention immediately.

SECTION 7: REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: Caustic amines, alkanolamines, inorganic acids Excessive temperatures and/or contact with air may cause decomposition or oxidation.

HAZARDOUS DECOMPOSITION PRODUCTS: UNKNOWN IF ANY

HARZARDOUS POLYMERIZATION: WILL NOT OCCUR

MATERIALS TO AVOID: Avoid contact with strong acids, strong bases, and oxidizing agents. Reacts explosively with iodine pentafluoroethylene.

DECOMPOSITION PRODUCTS: Incomplete decomposition product may include CO. Ultimate decomposition products are CO₂ and water.

SECTION 8: SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

Confine with sand or other inert media. Return to containers. Dispose in accordance with local, state, & federal regulations.

Waste disposal method: CALL NATIONAL RESPONSE CENTER 800-424-8802

Biodegradability: Not determined. Related chemicals are known to be biodegradable.

Aquatic Toxicity: Marine Pollutant. This substance is immiscible with water. This substance is known to evaporate quickly and biodegradable and should not cause long term effects.

Bioaccumulation Potential:

Not determined. Related chemicals are known to be non-accumulating in the environment.

Personal Precautions: See section 8, personal protection

Environmental Precautions: Do not discharge into surface water. Maybe toxic to aquatic organisms. See section 3 (environmental hazards) and section 12 (ecological information for further information)

Containment and Cleanup Techniques:

Exercise caution, as hard floors coated with this material may be slippery. Sand or oil-absorbing materials may absorb small spills. Pumping into closed containers for recovery or disposal should collect large spills. Spills over water will float and may be collected by oil absorbents or by skimming.

RCRA Hazardous Waste: Classified as a RCRA Hazardous waste (flammable characteristic).

Disposal Methods: Dispose of this material by incineration or recovery at a government-approved disposal facility.

SECTION 9: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Organic vapor cartridge may be used to prevent irruption from mists and vapors and for odor elimination.

VENTILATION: Mechanical ventilation may be necessary at elevated temporaries to control odor.

PROTECTIVE GLOVES: rubber or neoprene

OTHER PROTECTIVE EQUIPMENT: Wear chemically resistant rubber gloves and apron (piton, nitride, and or PVC) to minimize exposure

EYE PROTECTION: Wear chemical safety glasses, goggles, or face shield to prevent eye contact

SECTION 10: DISCLAIMER AND/OR COMMENTS

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any representation or warranty, expressed or implied, regarding its accuracy or corrections.

The conditions of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reason, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use of disposal of the product.

SECTION 11: HANDLING AND STORAGE

Handling: Wear chemical safety glasses or goggles and chemically resistant gloves. A chemically resistant apron may be used to protect clothing respirator may be worn to prevent breathing spray mists or heated fumes.

Storage: Store in tightly closed metal or glass containers. Containers should be full or blanketed by inert gas. Do not store in plastic. Avoid heat, sparks, and open flames

Section 12: TRANSPORT INFORMATION

US DOT Shipping Classification

Proper Shipping Name: TERPENE HYDROCARBONS, N.O.S.

Hazard Class: 3

Identification No: UN2319

Packing Group III

Label/Placard: exception SS173.150(f) applies

TDG Status: Hazardous

IMO Status: Hazardous

IATA Status: Hazardous

Section 13: REGULATORY INFORMATION

OSHA – Hazardous by definition of 29CFR1910. 1200 for flammability

CERCLA – (SARA Title III) Hazard Category – Fire hazard.

Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 1986

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

SARA TITLE III (Section 313)

This substance contains no materials subject to the reporting requirements of SARA Title III (Section 313).

Section 16 – Other Information

Hazard Ratings (0=minimal, 1= slight, 2=moderate, 3 = serious, 4 = severe)

HM18; Health = 2 Flammability = 2 Reactivity = 1 Personal Protection = C

NFPA: Health = 1 Flammability = 2 Reactivity = 0

The information contained in this document is believed to be current and accurate. It is given in good faith and without warranty, expressed or implied, as to its accuracy. Anyone using this product is solely responsible for determining its suitability in any given application.