

# Material Data Safety Sheet for *Citrus Solvent*

**Product Name: Citrus Solvent/d-Limonene**

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 6/8/2015

-----Section 2 – Composition, Information on Ingredients -----

Component	CAS No.	OSHA HCS Hazard(s)
Citrus Solvent	5989-27-5	Flammable Liquid. Skin and eye irritant

EC Classifications:

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

-----Section 3 – Hazards Identification-----

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 4 – First Aid Measures-----

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 5 – Fire Fighting Measures-----

Flammable Properties: Flashpoint 48 degrees Celsius (115 degrees Fahrenheit) TTC. Vapors can combust and liquids can burn when temperatures reach or exceed the flashpoint.  
Extinguishing Media: Carbon dioxide, dry chemical, foams  
Fire Fighting Instructions: Use CO<sub>2</sub>, foam or dry chemical. Use water as a spray only to lower temperature. This substance floats on water. Treat as an oil fire.

-----Section 6 – Accidental Release Measure-----

Personal Precautions: See section 8, personal protection  
Environmental Precautions: Do not discharge into surface water. May be 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.

-----Section 7 – 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 8 – Exposure Controls, Personal Protection-----

Ventilation: Mechanical ventilation may be necessary at elevated temperatures to control odor.  
Respiratory Protection: Organic vapor cartridge may be used to prevent irritation from mists and vapors and for odor elimination.  
Skin Protection: Wear chemically resistant rubber gloves and apron (neoprene, nitrile, and or PVC) to minimize exposure.  
Eye Protection: Wear chemical safety glasses, goggles, or face shield to prevent eye contact.

-----Section 9 – Physical and Chemical Properties-----

Appearance: Colorless to pale yellow liquid.  
Boiling Point: 154 degrees C (310 degrees F)  
Flashpoint: 48 degrees C (115 degrees F) TTC  
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 %.  
Specific Gravity: 0.84 @25 degrees C.  
Vapor Pressure: 2 mmHg at 20 degrees C.  
Vapor Density: >1 (air=1.0).

-----Section 10 – Stability and Reactivity-----

Conditions to Avoid: Excessive temperatures and-or contact with air may cause decomposition or oxidation.  
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 CO<sub>2</sub> and water.

-----Section 11 – 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.

-----Section 12 – 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 13 – Disposal Considerations-----

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 14 – Transport Information -----

DOT:  
Proper Shipping Name: Terpene hydrocarbons, n.o.s.3, UN2319, PG III  
Exceptions: Chemicals, n.o.1. (Not Regulated) – allowable for shipment in non-bulk containers.  
IMO: DIPENTENE, 3, UN2052, PGIII, and MARINE POLLUTANT.  
IATA: Terpene hydrocarbons, n.o.s., 3, UN2318, PGIII

----- Section 15 – Regulatory Information-----

OSHA – Hazardous by definition of 29CFR1910. 1200 for flammability  
CERCLA – (SARA Title III) Hazard Category – Fire hazard.

-----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

**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.

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