Material Safety Data Sheet for Citrus Solvent

Distributed By:
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Revised: Februrary 2005
Emergency Telephone Numbers:
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Product Name: Citrus Solvent/d-Limonene

Section 2. – Composition, Information on Ingredients

Hazardous Components	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 CO2, 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 temporaries to control odor.
Respiratory Protection:
Organic vapor cartridge may be used to prevent irruption from mists and vapors and for odor elimination.
Skin Protection:
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 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) 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 %.**
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 CO2 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=minimala, 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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