

## **1. PRODUCT INFORMATION**

Product name : d-Limonene (Citrus Terpene)  
INCI : d-Limonene  
Country of Origin : Brazil  
Supplier : Windy Point Soap Making Supplies Inc.  
Address : 14, 6125-12<sup>th</sup> Street SE, Calgary, AB T2H 2K1  
Telephone : 587-318-6678  
Emergency Telephone : (800) 225-3924 Canada, USA, Puerto Rico

## **2. HAZARDS IDENTIFICATION**

### **Emergency Overview**

### **GHS Classification**

Flammable Liquid, Category - 3

Skin Corrosion/Irritation - Category 2

Aspiration Hazard - Category 1

Hazard to the aquatic environment - Short term - Category 1

Hazard to the aquatic environment - Long term - Category 1

### **GHS Label elements, including precautionary statements**



### **Signal word**

Danger

### **Hazard statement(s)**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long-lasting effects.

### **Precautionary statement(s)**

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves, clothing and eye or face protection.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container to local/state/federal regulations.

### **3. COMPOSITION / INFORMATION INGREDIENTS**

<b>Product Name</b>	<b>CAS #</b>	<b>EC NO</b>	<b>Concentration</b>
Citrus Terpenes	8028-48-6	-	100%

### **4. FIRST AID MEASURES**

#### **Eye contact**

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

#### **Skin contact**

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

#### **Inhalation**

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

#### **Ingestion**

Seek medical attention or contact local poison control center.

### **5. FIRE FIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Sand, earth, dry powder, carbon dioxide.

#### **Special hazards arising from the substance or mixture**

Water spray, water jet.

#### **Advice for firefighters**

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

#### **Resulting gases**

Carbon oxides.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions, protective equipment and emergency procedures**

Equip clean crew with proper protection. Respiratory protection equipment may be necessary.

### **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### **Methods and materials for containment and cleaning up**

Clean up any spills as soon as possible, using an absorbent material to collect it. Use suitable disposal containers.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

No direct lighting. No smoking. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures.

### **Conditions for safe storage**

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **Eye protection**

Wear safety glasses with side shields (or goggles).

### **Skin protection**

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

### **Exposure limit values**

Citrus Terpene – 8 h TWA = 30 ppm (AIHA Standard)

TWA = Time Weighted Average.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	: pale yellow to yellow viscous liquid.
Odour	: Mild odour.
Melting Point/Freezing Point	: 53 – 63 °C (MP).
Flash point	: > 180 °C.
Initial b.p and boiling range	: > 200 °C.
Vapour pressure	: Greater than 1.3 hPa @ 25°C.
Relative density	: 0.9 g/cm <sup>3</sup> @20°C.
Solubility	: Soluble in water.
Auto-ignition temperature	: 237 °C.
Refractive index	: 1.471 to 1.474 @ 25 °C.
Optical rotation	: Not available.

## **10. STABILITY AND REACTIVITY**

### **Reactivity**

This material presents no significant reactivity hazard.

### **Chemical stability**

Stable under recommended storage conditions.

### **Possibility of hazardous reactions**

Hazardous polymerization will not occur.

### **Conditions to avoid**

Avoid sparks, flame and other sources of ignition.

### **Incompatible materials**

Strong oxidizing agents, clays and mineral acids. Highly exothermic reaction noted when blended approx. 50/50 with Alkylbenzene Sulphonic Acid with possible boil over danger. Similar reaction not noted at lower levels.

### **Hazardous decomposition products**

Carbon Oxides.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute Toxicity**

Oral: 50 -150 mg/kg (mouse): psycholeptic effect [RIFM, TDS]; 3500 mg/kg (mouse) : maximum no effect level [RIFMU, SLR].

Dermal: Moderate irritation [RIFM]. Full strength, 24 hr, under occlusion (rabbit)[RIFM]. Irritant effects [RIFMU]. Full strength to conjunctival sac (rabbit) [TDS].

### **Carcinogenicity**

Oral: TDlo = 67 g/kg, 39 wk., intermittent administration (mouse): equivocal tumorigenic agent by RTECs criteria [RTEC].

### **Reproductive toxicity**

Oral: TDlo = 3546 - 14178 mg/kg, administered days 7-12 of gestation (pregnant mouse). At dose of 3546 mg/kg, developmental abnormalities of the musculoskeletal system and physical effects on newborns; at dose of 14178 mg/kg, change in growth statistics (e.g. reduced weight gain) [RTEC].

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

Fish: LC50 - between 0.1 and 1 mg/L; Daphnia: EC50 - between 0.1 and 1 mg/L; Algae: EC50 - between 0.1 and 1 mg/L.

### **Persistence and degradability**

Citrus Terpene is a biodegradable solvent occurring in nature as the main component of citrus peel oil.

### **Bio accumulative potential**

Not available.

**Mobility in soil**

Not available.

**Other adverse effects**

Chemical Oxygen Demand: 2,850 gO<sub>2</sub>/l or 3,280 gO<sub>2</sub>/kg. Atmospheric half-life = c.a. 0.884 to 0.64 hrs.

**13. DISPOSAL CONSIDERATION**

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

**14. TRANSPORT INFORMATION**

**UN Number**

2319

**UN proper shipping name**

Terpene Hydrocarbons, N.O.S.

**Transport hazard class**

3

**Packing group**

III

**US DOT Shipping Description (Land)**

2319

**Proper shipping name**

Terpene Hydrocarbons, N.O.S.

**Class**

3

**Packaging group**

III

**IMO-IMDG Shipping Description (Sea)**

2319

**Proper shipping name**

Terpene Hydrocarbons, N.O.S.

**Class**

3

**Packaging group**

III

**IMO-IMDG code**

2319

**IMDG-Marine pollution**

Yes.

**IATA Shipping Description (Air)**

2319

**IATA Shipping Description (Air)**

Terpene Hydrocarbons, N.O.S

**Class**

3

**Packaging group**

III

**Emergency action in case of accident**

Notify police and fire department immediately.

**15. REGULATORY INFORMATION**

**DSL / NDSL**

Included in the DSL inventory.

**TSCA**

Included in the TSCA inventory.

**California Proposition 65**

Contains substance identified in the revised list of the California Safe Cosmetic program SB 484 (included in Proposition 65 revised list): -Contains MYRCENE.

**GHS Hazard Statements**

See section 2.

**GHS Precautionary Statements**

See section 2.

**16. OTHER INFORMATION**

**DISCLAIMER AND CAUTION**

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