

## 1. IDENTIFICATION

**Product Name:** LIQUEFY™  
**Product Type and Use:** Bio-based Asphalt and Tar Remover  
**Manufactured for:** GOLDEN WEST Industrial Supply  
2180 Agate Ct., Simi Valley, CA 93065  
**Contact:** Telephone: 1-805-522-1000 or 1-800-521-2601  
**Product Info:** Telephone: 972-271-7361  
**Emergency Telephone:** CHEMTREC® USA (800) 424-9300  
Outside US (703) 927-3887

## 2. HAZARDS IDENTIFICATION

### Hazard Classification

#### Health Hazard(s)

Skin Irritation Category 2  
Eye Irritation Category 2A  
Inhalation Category 4

#### Physical Hazard(s)

Flammable Liquids Category 4

#### Hazard(s) not otherwise classified

Aspiration Hazard Category 1

### Labeling

**Signal Word:** DANGER  
**Pictograms:** Exclamation Mark, Health Hazard

#### Statements of Hazard

##### Hazard Statements

Combustible liquid  
Causes skin and serious eye irritation  
May cause an allergic skin reaction  
Harmful if inhaled  
May be fatal if swallowed and enters airways

##### Precautionary Statements

Store in a well-ventilated place. Keep cool. Keep away from flames and hot surfaces – No smoking. In case of fire: Use carbon dioxide, dry chemical, or foam to extinguish. Use only outdoors or in a well-ventilated area. Avoid breathing mist and vapors. Wear eye protection and protective gloves. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Contaminated work clothing must not be allowed out of the workplace. Dispose of contents and container in accordance with applicable regulations. Store locked up.  
If on skin: Wash with plenty of water. If skin irritation or rash occurs: get medical advice/attention.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.  
If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor or poison center.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
D-Limonene	5989-27-5	20-30*
Nonylphenol ethoxylate	9016-45-9	5-10*

\* Exact percentage of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**General Advice:** Causes skin and serious eye irritation. Avoid skin and eye contact. Aspiration hazard; do not swallow. May cause lung damage. Use with adequate ventilation. Avoid breathing vapor or mist. Prolonged or repeated inhalation may cause dizziness and drowsiness. Keep container closed.

**Inhalation:** Remove from exposure area. Remove to fresh air. Give artificial respiration if not breathing. Get medical attention.

**Skin Contact:** Wipe excess from skin; remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation persists.

**Eye Contact:** Flush eyes with plenty of water for 15 minutes while holding eyelids open. Seek medical attention if irritation persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a physician or poison control center.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Suitable:** Carbon Dioxide, Dry Chemical, and Foam

**Unsuitable:** Alcohol, Alcohol based solutions, any other media not listed above.

**Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Unusual Fire and Explosion Hazards:** Solvent vapors are heavier than air and may travel to distant, low lying sources of ignition and may ignite and explode. Soaked rags or spill absorbents (i.e. oil dry, polypropylene socks, etc.) can cause spontaneous combustion if stored near combustibles and not handled properly. Store soaked rags or spill absorbents in approved safety containers and dispose of properly. Soaked rags may be washed with soap and water and allowed to dry in well ventilated area.

**Hazardous Combustion/ Decomposition Products:** Oxides of carbon

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions / Protective Equipment / Emergency Procedures:** Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment. Remove all sources of ignition and take precautionary measures against static discharges.

**Methods and materials for containment and cleaning up:** Do not flush into surface water or sanitary sewer system. Dike and contain spillage. Soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for disposal according to local / national regulations.

## 7. HANDLING AND STORAGE

### HANDLING

**Precautions for Safe Handling:** Avoid skin and eye contact. Use with adequate ventilation. Avoid breathing mist or vapors. Follow all SDS/label precautions even after container is empty due to residue.

### STORAGE

**Conditions to avoid:** Store in a cool, dry, well-ventilated place in the original container. Keep container tightly closed when not in use. Avoid excess heating, high temperatures, sparks, hot surfaces, open flames, and all other sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

D-Limonene: 30 ppm (8 hr TWA) AIHA Standard

**Engineering Controls:** Use outdoors or with local exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

### Personal Protection

**Respiratory Protection:** None required under normal use conditions. In case of insufficient ventilation and for exposures above occupational exposure limits wear a NIOSH approved air purifying respirator with organic vapor cartridge.

**Hand / Skin Protection:** Wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent and duration of exposure.

**Eye / Face Protection:** Safety glasses with side-shields. An eyewash station should be available to the area of use.

**General Hygiene Measures:** Avoid skin and eye contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Transparent	<b>Autoignition Temperature:</b>	261°C / 502°F
<b>Physical State:</b>	Non-viscous liquid	<b>Percent Volatile by volume:</b>	21
<b>Odor:</b>	Citrus	<b>Vapor Density (Air=1) :</b>	3.9
<b>Color:</b>	Brown	<b>Evaporation Rate (BuAc=1) :</b>	0.2
<b>Viscosity, cSt @ 40°C:</b>	Not established	<b>Vapor Pressure, mmHg @23°C:</b>	<2
<b>cSt @ 104°C:</b>	Not established	<b>Solubility in water:</b>	Emulsifiable
<b>pH:</b>	8.5	<b>Octanol/Water Partition:</b>	Not established
<b>Boiling Point/ Range:</b>	176°C / 349°F	<b>VOC Content (%):</b>	21
<b>Melting Point:</b>	Not established	<b>Specific Gravity @ 22.2°C:</b>	0.88
<b>Flash Point:</b>	43°C / 110°F	<b>Pour Point:</b>	Not established
<b>Method:</b>	Tag Closed Cup	<b>Non-volatile by Volume (%):</b>	75
<b>Lower Explosive Limit, vol %:</b>	0.7	<b>Dielectric Strength (KV):</b>	Not applicable
<b>Upper Explosive Limit, vol %:</b>	6.1		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at ambient temperatures.

**Conditions to Avoid:** Avoid high temperatures, sparks, open flame, and all other sources of ignition.

**Hazardous Polymerization:** Will not occur.

**Materials to Avoid:** Bases, acids, amines and oxidizing materials.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information:** Not established

### Ingredient Information

D-Limonene: Orl-Rat >5 g/kg, Skn-Rbt >5 g/kg

Nonylphenol Ethoxylate: Orl-Rat LD50 >5 g/kg, Skn-Rbt LD50 >2 g/kg

### Acute Effects

**Signs and Symptoms of Overexposure:** Skin and Eye Irritation, Coughing/Sneezing, Dizziness

**Inhalation:** Vapor and mist may cause respiratory irritation with nasal discomfort and discharge, coughing and sneezing. Prolonged and repeated inhalation may cause nausea, dizziness and drowsiness.

**Skin Contact:** May cause irritation seen as itching and redness. May cause allergic skin reaction.

**Eye Contact:** May cause stinging, tearing and redness.

**Ingestion:** May cause nausea, vomiting and diarrhea. Ingestion and subsequent vomiting may result in aspiration of the product into the lungs resulting in chemical pneumonitis, pneumonia, and pulmonary edema.

**Primary Route(s) of Exposure:** Eyes, Inhalation

**Primary Route(s) of Entry:** Inhalation, Ingestion

**Target Organs:** Eyes, Skin, Central Nervous System, immune system, lungs, liver, kidneys

**Chronic Effects:** Skin sensitization

**Carcinogenicity:** D-Limonene IARC Group 3, Not classifiable as to its carcinogenicity to humans

**Medical Conditions Aggravated by Exposure:** May aggravate existing skin, eye and respiratory conditions.

## 12. ECOLOGICAL INFORMATION

**Product Data:** Not established

### Ingredient Data

D-Limonene: Toxicity to Fish LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h, LC50 = 35 mg/L Oncorhynchus mykiss 96 h

Nonylphenol Ethoxylate: Toxicity to Fish LC50 1.3 mg/L 96 hr

**Elimination Information:** The octanol-water partition coefficient (Kow) for d-limonene is 4.23.

### 13. DISPOSAL CONSIDERATIONS

**Product:** Dispose of in accordance with local regulations. Smaller quantities can be disposed of with household waste.  
**Container:** Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal. Empty containers may contain residues. Do not cut, weld or grind empty containers.

### 14. TRANSPORT INFORMATION

#### Road Transport

**DOT Hazard Class:** 3

**Description:** UN2052, Dipentene Solution, 3, PG III (<119 gal Combustible exception may be used)

**UN-No.:** UN2052

**Proper Shipping Name:** Dipentene Solution

#### Sea Transport

**IMDG/GGV See Class:** 3

**UN-No.:** UN2052

**EmS:** F-E, S-E

**Packing Group:** III

**Proper Shipping Name:** Dipentene

**Subsidiary Shipping Hazard:** P

**Environmental Shipping Hazard:** UN2052, Dipentene, 3 (P), PG III

**Marine Pollutant:** Marine Pollutant

#### Air Transport

**ICAO/IATA Class:** 3

**UN-No.:** UN2052

**Packing Group:** III

**Shipping Name:** Dipentene

**Shipping Description:** UN2052, Dipentene, 3(P), PG III

### 15. REGULATORY INFORMATION

#### **U.S. Federal Regulations**

**Toxic Substances Control Act (TSCA):** All components are included on the Inventory

**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
X	X	X		

### 16. OTHER INFORMATION

**Prepared by:** GOLDEN WEST Industrial Supply, Technical Services Department

**Issue Date:** 4/16/2015

**Supersedes Date:** 11/11/2013

**Revision Indicator:** Update to OSHA 2012 SDS

National Fire Protection Association (704)

Health: 1

Flammability: 2

Reactivity: 0

Other:

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: GOLDEN WEST Industrial Supply