

Product: **Mold Cleaner (d-Limonene)**

Page 1 of 10

5800 Park Vista Circle
Keller, TX 76244
Ph#1 (800) 929-9425
F#1 (817) 741-0879
Web: www.lonestarcandlesupply.com

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade Name: Mold Cleaner (d-Limonene)

1.2 Relevant identified product use

Intended use: Solvent. Cleaner. Degreaser.

1.3 Details of the manufacturer/supplier of the safety data sheet

Supplier: Lone Star Candle Supply, Inc.
5800 Park Vista Circle
Keller, TX 76244
Ph#1 (800) 929-9425
F#1 (817) 741-0879
Web: www.lonestarcandlesupply.com

1.4 Emergency telephone number

1 (817) 741-0876 Domestic USA, Canada, Puerto Rico, and US Virgin Islands
International

2. Hazards Identification

GHS Classification

Flammable liquids : Category 3

Skin Irritation : Category 2

Eye Irritation : Category 2B

Skin Sensitisation : Category 1

Aspiration Hazard : Category 1

GHS label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 + H320 Causes skin and eye irritation.
H317 May cause an allergic skin reaction



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Precautionary Statements

: Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection.

Response:

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P331 Do NOT induce vomiting.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Disposal:

- P501 Dispose of contents/ container to an approved was disposal plant.

Other Hazards

None known.

3. Composition/Information on Ingredients

Substance / Mixture : Substance

Hazardous Components

| CAS-No. | Chemical Name | Weight percent |
|-----------|---------------|----------------|
| 5989-27-5 | d-Limonene | 90 - 100 |

Any concentration shown as a range is due to batch variation.



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4. First Aid Measures

- General Advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Symptoms of poisoning may appear several hours later.
Do not leave the victim unattended.
- If Inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Keep respiratory tract clear.
Do not induce vomiting without medical advice.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

5. Firefighting Measures

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products : Carbon oxides
Acrid smoke and fumes.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in close containments.
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures. : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions. : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.



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Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent materials, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and Storage

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards

8. Exposure Controls/Personal Protection

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

| | |
|--------------------------|---|
| Respiratory protection | : No personal respiratory protective equipment normally required. In the case of vapor formation use a respirator with an approved filter. |
| Hand protection | |
| Remarks | : The suitability for a specific workplace should be discussed with the producers of the protective gloves. |
| Eye protection | : Eye wash bottle with pure water Tightly fitting safety goggles |
| Skin and body protection | : Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures | : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. |



Product: **Mold Cleaner (d-Limonene)**

SDS v1 GHS / OSHA
Type:
Revised Date: 2022-10-14

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11. Toxicological information

| | |
|---|--|
| Appearance | : liquid |
| Color | : clear, light yellow |
| Odor | : Citrus |
| Odor Threshold | : No data available |
| pH | : No data available |
| Freezing Point (Melting point/range) | : |
| Boiling Point (Boiling point/boiling range) | : 176°C (349°F) |
| Flash Point | : 46°C (115°F) |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : No data available |
| Upper explosion limit | : 6.1 %(V) |
| Lower explosion limit | : 0.7 %(V) |
| Vapor pressure | : 2 mmHg @ 20°C (68°F) |
| Relative vapor density | : No data available |
| Relative density | : 0.84 @ 20 - 25°C (68 - 77°F) Reference substance: (water = 1) |
| Density | : 0.84 g/cm ³ @ 20 - 25°C (68 - 77°F) |
| Water solubility | : No data available |
| Solubility in other solvents | : No data available |
| Partition coefficient noctanol/water | : No data available |
| Auto-ignition temperature | : 237°C |
| Thermal decomposition | : No data available |

10. Stability and Reactivity

| | |
|------------------------------------|---|
| Reactivity | : No dangerous reaction known under conditions of normal use. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : Vapors may form explosive mixture with air |
| Conditions to avoid | : Keep away from heat, flame, sparks, and other ignition sources. |
| Incompatible materials | : Strong acids. Strong oxidizing agents. |
| Hazardous decomposition products | : Carbon oxides |

11. Toxicological Information

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 4,444 mg/kg



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Components:

5989-27-5:

Acute oral toxicity

: LD50 (Rat): 4,400 mg/kg

Assessment: The component/mixture is minimally toxic after single ingestion

Acute inhalation toxicity

: Remarks: No data available

Acute dermal toxicity

: LD50 (Rabbit): > 5,000 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Components:

5989-27-5:

Species: Rabbit

Result: Irritating to skin.

Serious eye damage/eye irritation

Components:

5989-27-5:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitization

Components:

5989-27-5:

Test Type: lymph node assay

Species: Mouse

Result: May cause sensitization by skin contact.

Germ cell mutagenicity

Components:

5989-27-5:

Genotoxicity in vitro

: Test Type: Mammalian cell gene mutation assay

Species: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo

: Test Type: DNA damage and/or repair

Species: Rat

Cell type: Kidney cells

Application Route: Oral

Result: negative

Germ cell mutagenicity - Assessment

: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.



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Carcinogenicity

Components:

5989-27-5:

Carcinogenicity - Assessment
IARC

: Not classifiable as a human carcinogen
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

Components:

5989-27-5:

Reproductive toxicity - Assessment

Fertility classification not possible from current data.

Teratogenicity - Assessment

: Embryotoxicity classification not possible from current data.

Aspiration toxicity

Components:

5989-27-5:

May be fatal if swallowed and enters airways

Further information

Product:

Remarks: Solvents may degrease the skin.

12. Ecological Information

Ecotoxicity

Components:

5989-27-5:

Toxicity to fish

: LC50 (Pimephales promelas (fathead minnow)): 0.702 mg/l
Exposure time: 96 h
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.36 mg/l
Exposure time: 48h
Test Type: static test

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| | |
|--|---|
| Toxicity to algae | : EC50 (Desmodesmus subspicatus (green algae)): 150 mg/l Exposure time: 72 h Test Type: static test |
| M-Factor (Acute aquatic toxicity) | : 1 |
| Toxicity to fish (Chronic toxicity) | : NOEC: 0.19 mg/l Exposure time: 8 d |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC (Daphnia magna (Water flea)): 0.08 mg/l Exposure time: 21 d |
| Acute aquatic toxicity - Assessment | |
| Chronic aquatic toxicity - Assessment | : Very toxic to aquatic life. |
| Persistence and degradability No data available | : Very toxic to aquatic life with long lasting effects |

Bioaccumulative potential

Components:

5989-27-5:

Bioaccumulation

: Bioconcentration factor (BCF): 908.5

Partition coefficient: noctanol/water

: log Pow: 4.57

Mobility in soil

No data available

log Pow: 4.38 (37°C)

pH: 7.2

Other adverse effects

Product:

Ozone-Depletion Potential

: Regulation: 40 CFR Protection of Environment; Part 82
Protection of Stratospheric Ozone - CAA Section 602 Class
I Substances

Remarks: This product neither contains, nor was
manufactured with a Class I or Class II ODS as defined by
the U.S. Clean Air Act Section 602 (40CFR 82, Subpt. A,
App.A + B).

Additional ecological information

: An environmental hazard cannot be excluded in the event
of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

13. Disposal Considerations

Disposal methods

Contaminated packaging

: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty
drum.

14. Transport Information

DOT (Department of Transportation):

UN1197, Extracts, flavoring, liquid, 3, III

IATA (International Air Transport Association):

UN1197, Extracts, flavoring, liquid, 3, III

IMDG (International Maritime Dangerous Goods):UN1197, Extracts, flavoring, liquid, 3, III, Marine
Pollutant (D-LIMONENE), Flash Point: 46°C (115°F)**Special Notes:**

:The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173. 150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as hazardous substance.

15. Regulatory Information

WHMIS Classification

: B3: Combustible Liquid
D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act**CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

: Fire Hazard
Acute Health Hazard

SARA 302

: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68. 130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CRF 60.489)

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Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A
 This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.
 This product does not contain any toxic pollutants listed under the U.S. Clean Water Act, Section 307.

US State Regulations

Massachusetts Right to Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know

5989-27-5 d-Limonene 90 - 100%

New Jersey Right to Know

5989-27-5 d-Limonene 90 - 100%

California Prop 65

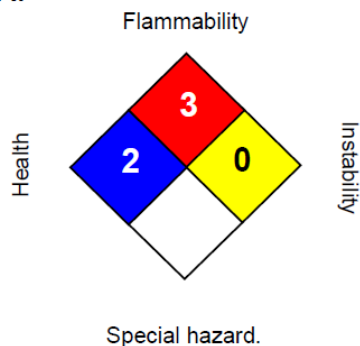
: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

- TSCA : On TSCA Inventory
- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PHIL : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

16. Other Information

NFPA:



HMIS III:

| | |
|------------------------|----------|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
 2 = Moderate, 3 = High
 4 =Extreme, * = Chronic

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Lone Star Candle Supply, Inc. (1-817-741-0876) Customerservice@lscs.com