



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** LEMON

### Other means of identification

**Product code** #33998

**Recommended use** Not available.

**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name**

**Address**

Candles and Supplies  
2580 Milford Square Pike  
Quakertown PA 18951  
United States

**Telephone**

Main 1-215-538-8552  
Toll free 1-800-819-6118

**Website**

www.candlesandsupplies.net

**E-mail**

info@candlesandsupplies.com

**Emergency phone number**

United States 1-800-819-6118  
International 1-215-538-8552

## 2. Hazard(s) identification

**Physical hazards** Not classified.

### Health hazards

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Sensitization, skin Category 1

### Environmental hazards

Hazardous to the aquatic environment, acute hazard Category 2

Hazardous to the aquatic environment, long-term hazard Category 2

### OSHA defined hazards

Not classified.

### Label elements



**Signal word**

Warning

**Hazard statement**

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

### Precautionary statement

#### Prevention

Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.

#### Response

If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

#### Storage

Store away from incompatible materials.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

### Hazard(s) not otherwise classified (HNOC)

None known.

**Supplemental information**

2.87% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 12.1% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

**3. Composition/information on ingredients****Mixtures**

| Chemical name                                                             | CAS number | %          |
|---------------------------------------------------------------------------|------------|------------|
| Citral                                                                    | 5392-40-5  | 10 - < 20* |
| Benzyl benzoate                                                           | 120-51-4   | 5 - < 10*  |
| Benzyl salicylate                                                         | 118-58-1   | 3 - < 5*   |
| 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-gamma-2-benzopyran | 1222-05-5  | 1 - < 3*   |
| Lemon oil                                                                 | 8008-56-8  | 1 - < 3*   |
| Lemongrass oil                                                            | 8007-02-1  | 1 - < 3*   |
| 4-tert-Butyl cyclohexyl acetate                                           | 32210-23-4 | < 1*       |
| Butylated hydroxytoluene                                                  | 128-37-0   | < 1*       |
| Cedarwood oil, Virginian                                                  | 8000-27-9  | < 1*       |
| Vanillin                                                                  | 121-33-5   | < 1*       |
| Orange sweet, Valencia oil                                                | 8008-57-9  | < 0.2*     |
| Benzyl acetate                                                            | 140-11-4   | < 0.1*     |
| Other components below reportable levels                                  |            | 70 - < 80  |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**4. First-aid measures****Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion**

Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash.

**Indication of immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

**5. Fire-fighting measures****Suitable extinguishing media**

Powder. Foam. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**

Move containers from fire area if you can do so without risk.

**Specific methods**

Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards**

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

### Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

## 7. Handling and storage

### Precautions for safe handling

Provide adequate ventilation. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

| Components                              | Type | Value               | Form                          |
|-----------------------------------------|------|---------------------|-------------------------------|
| Benzyl acetate (CAS 140-11-4)           | TWA  | 10 ppm              |                               |
| Butylated hydroxytoluene (CAS 128-37-0) | TWA  | 2 mg/m <sup>3</sup> | Inhalable fraction and vapor. |
| Citral (CAS 5392-40-5)                  | TWA  | 5 ppm               | Inhalable fraction and vapor. |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components                              | Type | Value                |
|-----------------------------------------|------|----------------------|
| Butylated hydroxytoluene (CAS 128-37-0) | TWA  | 10 mg/m <sup>3</sup> |

#### US. Workplace Environmental Exposure Level (WEEL) Guides

| Components              | Type | Value                |
|-------------------------|------|----------------------|
| Vanillin (CAS 121-33-5) | TWA  | 10 mg/m <sup>3</sup> |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

#### US ACGIH Threshold Limit Values: Skin designation

Citral (CAS 5392-40-5)

Can be absorbed through the skin.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Face shield is recommended. Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

##### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

|                                       |                                                                                                                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory protection</b>         | In case of insufficient ventilation, wear suitable respiratory equipment.                                                                                                                                                                                                                    |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                                                                                                |
| <b>General hygiene considerations</b> | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |

## 9. Physical and chemical properties

|                                                     |                                |
|-----------------------------------------------------|--------------------------------|
| <b>Appearance</b>                                   | Colorless to Pale Amber        |
| <b>Physical state</b>                               | Liquid.                        |
| <b>Form</b>                                         | Liquid.                        |
| <b>Color</b>                                        | Not available.                 |
| <b>Odor</b>                                         | Characteristic of Name         |
| <b>Odor threshold</b>                               | Not available.                 |
| <b>pH</b>                                           | Not available.                 |
| <b>Melting point/freezing point</b>                 | Not available.                 |
| <b>Initial boiling point and boiling range</b>      | 507.9 °F (264.39 °C) estimated |
| <b>Flash point</b>                                  | > 210.0 °F (> 98.9 °C)         |
| <b>Evaporation rate</b>                             | Not available.                 |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                |
| <b>Upper/lower flammability or explosive limits</b> |                                |
| <b>Explosive limit - lower (%)</b>                  | Not available.                 |
| <b>Explosive limit - upper (%)</b>                  | Not available.                 |
| <b>Vapor pressure</b>                               | 0.015 hPa estimated            |
| <b>Vapor density</b>                                | Not available.                 |
| <b>Relative density</b>                             | Not available.                 |
| <b>Solubility(ies)</b>                              |                                |
| <b>Solubility (water)</b>                           | NO                             |
| <b>Auto-ignition temperature</b>                    | Not available.                 |
| <b>Decomposition temperature</b>                    | Not available.                 |
| <b>Viscosity</b>                                    | Not available.                 |
| <b>Other information</b>                            |                                |
| <b>Density</b>                                      | 7.79 lbs/gal estimated         |
| <b>Explosive properties</b>                         | Not explosive.                 |
| <b>Oxidizing properties</b>                         | Not oxidizing.                 |
| <b>Refractive index</b>                             | 1.4722 - 1.4772                |
| <b>Specific gravity</b>                             | 0.916 - 0.956                  |
| <b>VOC (Weight %)</b>                               | Not determined                 |

## 10. Stability and reactivity

|                                           |                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.                                                   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| <b>Incompatible materials</b>             | Strong oxidizing agents.                                                                      |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.                                                |

## 11. Toxicological information

### Information on likely routes of exposure

|                   |                                      |
|-------------------|--------------------------------------|
| <b>Inhalation</b> | Prolonged inhalation may be harmful. |
|-------------------|--------------------------------------|

|                                                                                     |                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>                                                                 | Causes skin irritation. May cause an allergic skin reaction.                                                                                                                                              |
| <b>Eye contact</b>                                                                  | Causes serious eye irritation.                                                                                                                                                                            |
| <b>Ingestion</b>                                                                    | Expected to be a low ingestion hazard.                                                                                                                                                                    |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. |
| <b>Information on toxicological effects</b>                                         |                                                                                                                                                                                                           |
| <b>Acute toxicity</b>                                                               | May cause an allergic skin reaction.                                                                                                                                                                      |
| <b>Skin corrosion/irritation</b>                                                    | Causes skin irritation.                                                                                                                                                                                   |
| <b>Serious eye damage/eye irritation</b>                                            | Causes serious eye irritation.                                                                                                                                                                            |
| <b>Respiratory or skin sensitization</b>                                            |                                                                                                                                                                                                           |
| <b>ACGIH Sensitization</b>                                                          |                                                                                                                                                                                                           |
| Citral (CAS 5392-40-5)                                                              | Dermal sensitization                                                                                                                                                                                      |
| <b>Respiratory sensitization</b>                                                    | Not a respiratory sensitizer.                                                                                                                                                                             |
| <b>Skin sensitization</b>                                                           | May cause an allergic skin reaction.                                                                                                                                                                      |
| <b>Germ cell mutagenicity</b>                                                       | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.                                                                                          |
| <b>Carcinogenicity</b>                                                              | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                                                                                                           |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>                       |                                                                                                                                                                                                           |
| Benzyl acetate (CAS 140-11-4)                                                       | 3 Not classifiable as to carcinogenicity to humans.                                                                                                                                                       |
| Butylated hydroxytoluene (CAS 128-37-0)                                             | 3 Not classifiable as to carcinogenicity to humans.                                                                                                                                                       |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>               |                                                                                                                                                                                                           |
| Not listed.                                                                         |                                                                                                                                                                                                           |
| <b>Reproductive toxicity</b>                                                        | This product is not expected to cause reproductive or developmental effects.                                                                                                                              |
| <b>Specific target organ toxicity - single exposure</b>                             | Not classified.                                                                                                                                                                                           |
| <b>Specific target organ toxicity - repeated exposure</b>                           | Not classified.                                                                                                                                                                                           |
| <b>Aspiration hazard</b>                                                            | Not an aspiration hazard.                                                                                                                                                                                 |
| <b>Chronic effects</b>                                                              | Prolonged inhalation may be harmful.                                                                                                                                                                      |

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Components                | Species | Test Results |
|---------------------------|---------|--------------|
| Lemon oil (CAS 8008-56-8) |         |              |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

### Bioaccumulative potential

#### Partition coefficient n-octanol / water (log Kow)

|                 |      |
|-----------------|------|
| Benzyl acetate  | 1.96 |
| Benzyl benzoate | 3.97 |
| Vanillin        | 1.37 |

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

|                                              |                                                                                                                                                                                                                  |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |

## 14. Transport information

### DOT

Not regulated as dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** No

### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### US state regulations

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### US. Massachusetts RTK - Substance List

Butylated hydroxytoluene (CAS 128-37-0)

#### US. New Jersey Worker and Community Right-to-Know Act

Benzyl acetate (CAS 140-11-4)

Butylated hydroxytoluene (CAS 128-37-0)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Butylated hydroxytoluene (CAS 128-37-0)

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| Country(s) or region        | Inventory name                                                         | On inventory or exempt (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|----------------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                              |
| Canada                      | Domestic Substances List (DSL)                                         | Yes                              |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                               |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                              |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                              |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                              |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                              |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

|               |                                                                              |
|---------------|------------------------------------------------------------------------------|
| Issue date    | 09-25-2015                                                                   |
| Revision date | 12-13-2016                                                                   |
| Version #     | 02                                                                           |
| HMIS® ratings | Health: 2<br>Flammability: 0<br>Physical hazard: 0<br>Personal protection: D |
| NFPA ratings  | Health: 2<br>Flammability: 0<br>Instability: 0                               |

**NFPA ratings****Disclaimer**

Candles and Supplies cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

**Revision Information**

This document has undergone significant changes and should be reviewed in its entirety.