

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Lemon Concentrate 232W45

**Version:** 1

## Section 1. Identification of the substance or the mixture and of the supplier

### 1.1 Product Identifier

**Product identifier:** Lemon Concentrate 232W45

**Other identifiers:** None

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Product uses:** Flavours

### 1.3 Details of the supplier of the safety data sheet

**Company name:** Perfumer's Apprentice

**Company address:** 170 Technology Circle  
Scotts Valley  
CA 95066  
USA

**Contact:** Elisabeth Hanson

**E-Mail address:** regulatory@perfumersapprentice.com

**Company phone:** +1 (831) 346 7234

### 1.4 Emergency telephone number

**Emergency phone:** +1 (831) 346 7234

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Class and category of danger:** Flammable Liquid, Hazard Category 3  
Skin Corrosion / Irritation Category 2  
Sensitization - Skin Category 1  
Aspiration Hazard Category 1  
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.

### 2.2 Label elements

**Signal word:** Danger

**Hazard statements:** 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.

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**Precautionary statements:**

P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.  
P233, Keep container tightly closed.  
P240, Ground/bond container and receiving equipment.  
P241, Use explosion-proof electrical, ventilating and lighting equipment.  
P242, Use only non-sparking tools.  
P243, Take precautionary measures against static discharge.  
P261, Avoid breathing vapour or dust.  
P264, Wash hands and other contacted skin thoroughly after handling.  
P272, Contaminated work clothing should not be allowed out of the workplace.  
P280, Wear protective gloves/eye protection/face protection.  
P301/310, IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303/361/353, IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P331, Do not induce vomiting.  
P333/313, If skin irritation or rash occurs: Get medical advice/attention.  
P362, Take off contaminated clothing and wash before reuse.  
P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.  
P403/235, Store in a well-ventilated place. Keep cool.  
P405, Store locked up.  
P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.

**Pictograms:**



**Other hazards:** None

### Section 3. Composition / information on ingredients

#### 3.2 Mixtures

**Contains:**

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| Name               | CAS       | EC        | %       | GHS Classification                         |
|--------------------|-----------|-----------|---------|--|
| d-Limonene         | 5989-27-5 | 227-813-5 | 50-100% | FL 3-SCI 2-SS 1B-AH 1;H226-H304-H315-H317  |
| beta-Pinene        | 127-91-3  | 204-872-5 | 5-<10%  | FL 3-SCI 2-SS 1B-AH 1;H226-H304-H315-H317  |
| p-Mentha-1,4-diene | 99-85-4   | 202-794-6 | 1-<5%   | FL 3-AH 1;H226-H304                        |
| alpha-Pinene       | 80-56-8   | 201-291-9 | 1-<5%   | FL 3-SCI 2-SS 1B-AH 1;H226-H304-H315-H317  |
| Myrcene            | 123-35-3  | 204-622-5 | 0.1-<1% | FL 3-SCI 2-EDI 2A-AH 1;H226-H304-H315-H319 |
| Citral             | 5392-40-5 | 226-394-6 | 0.1-<1% | SCI 2-EDI 2A-SS 1B;H315-H317-H319          |
| Terpinolene        | 586-62-9  | 209-578-0 | 0.1-<1% | FL 4-SS 1B-AH 1;H227-H304-H317             |

The exact percentage concentrations of components are being withheld as a trade secret.

**Substances with Community workplace exposure limits, not listed above:**

Not Applicable

## Section 4. First-aid measures

### 4.1 Description of first aid measures

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

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

### 4.2 Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

### 4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

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

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

### 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

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### Section 6. Accidental release measures

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

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

#### **6.2 Environmental precautions:**

Keep away from drains, surface and ground water, and soil.

#### **6.3 Methods and material for containment and cleaning up:**

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

#### **6.4 Reference to other sections:**

Also refer to sections 8 and 13.

### Section 7. Handling and storage

#### **7.1 Precautions for safe handling:**

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

#### **7.2 Conditions for safe storage, including any incompatibilities:**

Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

#### **7.3 Specific end use(s):**

Flavours: Use in accordance with good manufacturing and industrial hygiene practices.

### Section 8. Exposure controls/personal protection

#### **8.1 Control parameters**

**Workplace exposure limits:** Not Applicable

#### **8.2 Exposure Controls**

##### **Eye / Skin Protection**

Wear protective gloves/eye protection/face protection

##### **Respiratory Protection**

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

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### Section 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

**Appearance:** Not determined

**Odour:** Not determined

**pH:** Not determined

**Initial boiling point / range:** Not determined

**Flash point:** 48.33 °C

**Vapour pressure:** Not determined

**Relative density:** 0.8450

**Solubility(ies):** Not determined

**9.2 Other information:** None available

### Section 10. Stability and reactivity

#### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

#### 10.2 Chemical stability:

Good stability under normal storage conditions.

#### 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

#### 10.4 Conditions to avoid:

Avoid extreme heat.

#### 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

#### 10.6 Hazardous decomposition products:

Not expected.

### Section 11. Toxicological information

#### 11.1 Information on toxicological effects

This mixture has not been tested as a whole for health effects. The health effects have been calculated using the methods outlined in 29 CFR 1910.1200.

May be fatal if swallowed and enters airways.

Causes skin irritation.

May cause an allergic skin reaction.

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|  |                |
|--|----------------|
| <b>Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity:</b>       | >5000          |
| <b>Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity:</b>     | Not Applicable |
| <b>Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity:</b> | Not Available  |
| <b>Inhalation Route:</b>   | Not Available  |

### Information about hazardous ingredients in the mixture

Not Applicable

Refer to Sections 2 and 3 for additional information.

### Section 12. Ecological information

#### 12.1 Toxicity:

Very toxic to aquatic life with long lasting effects.

**12.2 Persistence and degradability:** Not available

**12.3 Bioaccumulative potential:** Not available

**12.4 Mobility in soil:** Not available

#### 12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**12.6 Other adverse effects:** Not available

### Section 13. Disposal considerations

#### 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### Section 14. Transport information

|  |   |
|--|---|
| <b>14.1 UN number:</b>   | UN1197  |
| <b>14.2 UN Proper Shipping Name:</b>   | EXTRACTS, FLAVOURING, LIQUID                    |
| <b>14.3 Transport hazard class(es):</b>  | 3   |
| <b>Sub Risk:</b>   | -   |
| <b>14.4. Packing Group:</b>  | III   |
| <b>14.5 Environmental hazards:</b>   | This is an environmentally hazardous substance. |
| <b>14.6 Special precautions for user:</b>  | None additional                                 |
| <b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:</b> | Not applicable                                  |

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### Section 15. Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None additional

#### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

### Section 16. Other information

**Concentration % Limits:** SCI 2=10.85% SS 1=1.20% AH 1=10.26%

**Total Fractional Values:** SCI 2=9.22 SS 1=83.52 AH 1=9.74

#### Key to revisions:

Not applicable

#### Key to abbreviations:

| Abbreviation | Meaning  |
|--------------|--|
| AH 1         | Aspiration Hazard Category 1   |
| EDI 2A       | Eye Damage / Irritation Category 2A  |
| FL 3         | Flammable Liquid, Hazard Category 3  |
| FL 4         | Flammable Liquid, Hazard Category 4  |
| H226         | Flammable liquid and vapour.   |
| H227         | Combustible liquid.  |
| H304         | May be fatal if swallowed and enters airways.  |
| H315         | Causes skin irritation.  |
| H317         | May cause an allergic skin reaction.   |
| H319         | Causes serious eye irritation.   |
| P210         | Keep away from heat, sparks, open flames and hot surfaces. - No smoking.   |
| P233         | Keep container tightly closed.   |
| P240         | Ground/bond container and receiving equipment.   |
| P241         | Use explosion-proof electrical, ventilating and lighting equipment.  |
| P242         | Use only non-sparking tools.   |
| P243         | Take precautionary measures against static discharge.  |
| P261         | Avoid breathing vapour or dust.  |
| P264         | Wash hands and other contacted skin thoroughly after handling.   |
| P272         | Contaminated work clothing should not be allowed out of the workplace.   |
| P280         | Wear protective gloves/eye protection/face protection.   |
| P301/310     | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  |
| P302/352     | IF ON SKIN: Wash with plenty of soap and water.  |
| P303/361/353 | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.                       |
| P305/351/338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

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|----------|--|
| P331     | Do not induce vomiting.  |
| P332/313 | If skin irritation occurs: Get medical advice/attention.                                       |
| P333/313 | If skin irritation or rash occurs: Get medical advice/attention.                               |
| P337/313 | If eye irritation persists: Get medical advice/attention.                                      |
| P362     | Take off contaminated clothing and wash before reuse.  |
| P363     | Wash contaminated clothing before reuse.   |
| P370/378 | In case of fire: Use carbon dioxide, dry chemical, foam for extinction.                        |
| P403/235 | Store in a well-ventilated place. Keep cool.   |
| P405     | Store locked up.   |
| P501     | Dispose of contents/container to approved disposal site, in accordance with local regulations. |
| SCI 2    | Skin Corrosion / Irritation Category 2   |
| SS 1B    | Sensitization - Skin Category 1B   |

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.