

# SAFETY DATA SHEET

In accordance with 29 CFR 1910.1200

**Product:** Key Lime Pie Flavor 18021

**Version:** 2

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

### 1.1 Product Identifier

**Product identifier:** Key Lime Pie Flavor 18021

**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:** (831)316-7137

### 1.4 Emergency telephone number

**Emergency phone:** ChemTel:1(800)255-3924, 01(813)248-0585 MIS6760377

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

**Class and category of danger:** Flammable Liquid, Hazard Category 4  
Eye Damage / Irritation Category 2A  
Sensitization - Skin Category 1  
Toxic to Reproduction Category 2  
H227, Combustible liquid.  
H317, May cause an allergic skin reaction.  
H319, Causes serious eye irritation.  
H361, Suspected of damaging fertility or the unborn child (exposure route).

### 2.2 Label elements

**Signal word:** Warning

**Hazard statements:** H227, Combustible liquid.  
H317, May cause an allergic skin reaction.  
H319, Causes serious eye irritation.  
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**Precautionary statements:**

P202, Do not handle until all safety precautions have been read and understood.  
 P210, Keep away from heat, sparks, open flames and hot surfaces. - No smoking.  
 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.  
 P302/352, IF ON SKIN: Wash with plenty of soap and water.  
 P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308/313, IF exposed or concerned: 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.  
 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.

**Pictograms:**



**Other hazards:** None

### Section 3. Composition / information on ingredients

#### 3.2 Mixtures

**Contains:**

Name	CAS	EC	%	GHS Classification
d-Limonene	5989-27-5	227-813-5	1-<5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B- Asp. Tox 1;H226-H304-H315-H317
beta-Pinene	127-91-3	204-872-5	0.1-<1%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B- Asp. Tox 1;H226-H304-H315-H317
p-Mentha-1,4-diene	99-85-4	202-794-6	0.1-<1%	Flam. Liq. 3-Repr. 2-Asp. Tox 1;H226- H304-H361
Citral	5392-40-5	226-394-6	0.1-<1%	Skin Irrit. 2-Eye Irrit. 2A-Skin Sens. 1B; H315-H317-H319

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

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

Name	CAS	EC	%
Propylene glycol	57-55-6	200-338-0	90-99%

### Section 4. First-aid measures

#### 4.1 Description of first aid measures

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/attention.

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

May cause an allergic skin reaction.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child (exposure route).

#### 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.

### 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.

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## 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/hot surfaces. - No smoking.

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

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting 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:

Ingredient	CAS	EC	Description	ppm	mg/m <sup>3</sup>	Reference
Propylene glycol	57-55-6	200-338-0	Long-term exposure limit (8-hour TWA reference period)	-	-	-
			Short-term exposure limit (15-minute reference period)	-	-	-

### 8.2 Exposure Controls

#### Eye / Skin Protection

Wear protective gloves/eye protection/face protection

#### Respiratory Protection

Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapour and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures: a) Isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. b) Employ the use of Personal protective equipment - an approved, properly fitted respirator with organic vapour cartridges or canisters and particulate filters. c) Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. d) Use closed systems for transferring and processing this material.

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Also refer to Sections 2 and 7.

### 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:** 62.5 °C  
**Vapour pressure:** Not determined  
**Relative density:** Not determined  
**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 cause an allergic skin reaction.

Causes serious eye irritation.

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Suspected of damaging fertility or the unborn child (exposure route).

<b>Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity:</b>	Not Applicable
<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:** Not available

**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

**14.1 UN number:** Not classified

**14.2 UN Proper Shipping Name:** Not classified

**14.3 Transport hazard class(es):** Not classified

**Sub Risk:** Not classified

**14.4. Packing Group:** Not classified

**14.5 Environmental hazards:** Not environmentally hazardous for transport

**14.6 Special precautions for user:** None additional

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not classified

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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:** SS 1=67.77% REP 2=41.21%

**Total Fractional Values:** SS 1=1.48 REP 2=2.43

#### Key to revisions:

2.1 Classification of the substance or mixture

Concentration % Limits

Information about hazardous ingredients in the mixture

SECTION 3: Composition/information on ingredients

Total Fractional Values

#### Key to abbreviations:

Abbreviation	Meaning
Asp. Tox 1	Aspiration Hazard Category 1
Eye Irrit. 2A	Eye Damage / Irritation Category 2A
Flam. Liq. 3	Flammable Liquid, Hazard Category 3
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.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child (exposure route).
P202	Do not handle until all safety precautions have been read and understood.
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.

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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.
P308/313	IF exposed or concerned: Get medical advice/attention.
P331	Do not induce vomiting.
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.
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.
Repr. 2	Toxic to Reproduction Category 2
Skin Irrit. 2	Skin Corrosion / Irritation Category 2
Skin Sens. 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.