

PERFUMER'S APPRENTICE

Issue date: 04/12/2018

Version: 1 (04/12/2018)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Hop oil FPD-2015A-2097

Version: 1

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

1.1 Product Identifier

**Product identifier:** Hop oil; CAS: 8060-28-4

Other identifiers: Hop oil

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

**Product uses:** Flavours, Fragrances

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

Classification under Regulation (EC) No 1272/2008

Class and category of

danger:

Flammable Liquid, Hazard Category 3

Skin Corrosion / Irritation Category 2 Eye Damage / Irritation Category 2

Aspiration Hazard Category 1

Hazardous to the Aquatic Environment - Long-term Hazard Category 3

H226, Flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H412, Harmful to aquatic life with long lasting effects.

2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: Danger





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Hazard statements: H226, Flammable liquid and vapour.

H304, May be fatal if swallowed and enters airways.

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H412, Harmful to aquatic life with long lasting effects.

M factor: None

Supplemental Information:

None

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.

P264, Wash hands and other contacted skin thoroughly after handling.

P273, Avoid release to the environment.

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.

P305/351/338, 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.

P332/313, If skin irritation 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.

Pictograms:



Other hazards: None





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### Section 3. Composition / information on ingredients

#### 3.1 Substances

**Product identifier:** Hop oil; CAS: 8060-28-4

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008
Myrcene	123-35-3	204-622-5		38.00%	FL 3-SCI 2-EDI 2-AH 1; H226-H304-H315- H319,-
beta-Pinene	127-91-3	204-872-5		0.50%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
dl-Limonene (racemic)	138-86-3	205-341-0		0.50%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
Geraniol	106-24-1	203-377-1		0.20%	SCI 2-EDI 1-SS 1; H315-H317-H318,-
alpha-Pinene	80-56-8	201-291-9		0.10%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410

### 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.

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

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

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

# 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.





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# 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.

#### 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, Fragrances: 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





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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.

# Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:

Odour:

Not determined

Odour threshold:

PH:

Not determined

Flash point: 43 °C

Evaporation rate: Not determined Flammability (solid, gas): Not determined

**Upper/lower flammability or explosive limits:** Product does not present an explosion hazard

Vapour pressure: Not determined Vapour density: Not determined Relative density: Not determined Solubility(ies): Not determined Partition coefficient: n-octanol/water: Not determined Auto-ignition temperature: Not determined Decomposition temperature: Not determined Not determined Viscosity: **Explosive properties:** Not expected Not expected Oxidising properties:

**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.





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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

Acute Toxicity: Based on available data the classification criteria are not met.

Acute Toxicity Oral Not Applicable
Acute Toxicity Dermal Not Applicable
Acute Toxicity Inhalation Not Available

Skin corrosion/irritation: Skin Corrosion / Irritation Category 2
Serious eye damage/irritation: Eye Damage / Irritation Category 2

Respiratory or skin sensitisation:

Germ cell mutagenicity:

Based on available data the classification criteria are not met.

Carcinogenicity:

Based on available data the classification criteria are not met.

Reproductive toxicity:

Based on available data the classification criteria are not met.

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Aspiration hazard: Aspiration Hazard Category 1

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:

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability: Not available12.3 Bioaccumulative potential: Not available

**12.4 Mobility in soil:** Not available



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#### 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:** UN1169

**14.2 UN Proper Shipping Name:** EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class(es): 3

Sub Risk: -

14.4. Packing Group:

**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 applicable

### Section 15. Regulatory information

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

RIFM ID Number: 5079-G2.9

15.2 Chemical Safety Assessment

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

Section 16. Other information

**Concentration % Limits:** EH C3=22.73% SCI 2=26.32% EDI 2=25.00% AH 1=10.20%

**Total Fractional Values:** EH C3=4.40 SCI 2=3.80 EDI 2=4.00 AH 1=9.80

Key to revisions:

Not applicable

### Key to abbreviations:

Abbreviation	Meaning	
AH 1	Aspiration Hazard Category 1	
EDI 1	Eye Damage / Irritation Category 1	



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EDI 2	Eye Damage / Irritation Category 2		
EH A1	Hazardous to the Aquatic Environment - Acute Hazard Category 1		
EH C1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1		
FL 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.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H410	Very toxic to aquatic life with long lasting effects.		
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.		
P273	Avoid release to the environment.		
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.		
P310	Immediately call a POISON CENTER or doctor/physician.		
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.		
P370/378	In case of fire: Use carbon dioxide, dry chemical, foam for extinction.		
P391	Collect spillage.		
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 1	Sensitization - Skin Category 1		
SS 1B	Sensitization - Skin Category 1B		
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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.