

PERFUMER'S APPRENTICE

Issue date: 03/29/2018

Version: 2 (03/29/2018)

## SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Strawberry Flavor (OS) 20780

Version: 2

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

1.1 Product Identifier

Product identifier: Strawberry Flavor (OS) 20780(Contains:2-Methylbutyric acid, 4-Hydroxy-2,5-dimethyl-3(2H)-

furanone)

Other identifiers: None

1.2 Relevant identified uses of the substance of 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

Classification under Regulation (EC) No 1272/2008

Class and category of

danger:

Flammable Liquid, Hazard Category 3

Eye Damage / Irritation Category 2 H226, Flammable liquid and vapour. H319, Causes serious eye irritation.

2.2 Label elements

Signal word: Warning

**Hazard statements:** H226, Flammable liquid and vapour.

H319, Causes serious eye irritation.

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.

Perfumer's Apprentice, 170 Technology Circle, Scotts Valley, CA, 95066, USA





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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.

P280, Wear protective gloves/eye protection/face protection.

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.

P337/313, If eye irritation persists: Get medical advice/attention.

P370/378, In case of fire: Use carbon dioxide, dry chemical, foam for extinction.

P403/235, Store in a well-ventilated place. Keep cool.

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	REACH Registration No.	%	Classification for (CLP) 1272/2008
2-Methylbutyric acid		204-145-2		1-5%	ATO 4-ATD 4-SCI 1B- EDI 1;H302-H312- H314,-
4-Hydroxy-2,5-dimethyl-3(2H)-furanone	3658-77-3	222-908-8		11-5%	EDI 2-SS 1A;H317- H319,-

#### Substances with Community workplace exposure limits:

Not Applicable

Substances that are persistent, bioaccumulative and toxic or very persistent and very bioaccumulative, greater than 0.1%:

Not Applicable





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#### Section 4. First-aid measures

#### 4.1 Description of first aid measures

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

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.

## 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.





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### 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.

### Section 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Appearance:

Odour:

Not determined

Odour threshold:

Not determined

Not determined

Not determined

Not determined

Not determined

Not determined

Melting point / freezing point:

Not determined

Not determined

Not determined

Flash point: 42.6 °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





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Vapour density: Not determined

Relative density: 0.9100

Solubility(ies):

Partition coefficient: n-octanol/water:

Not determined

Auto-ignition temperature:

Not determined

Not determined

Not determined

Viscosity:

Not determined

Not determined

Not determined

Viscosity:

Not expected

Oxidising properties:

Not expected

**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 Regulation (EC) No 1272/2008 (CLP).

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

Acute Toxicity Oral >5000
Acute Toxicity Dermal >5000

Acute Toxicity Inhalation Not Available

**Skin corrosion/irritation:** Based on available data the classification criteria are not met.

Serious eye damage/irritation: Eye Damage / Irritation Category 2





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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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## Information about hazardous ingredients in the mixture

Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
2-Methylbutyric acid	116-53-0	204-145-2	1760	1600	Not available	Not available

Refer to Sections 2 and 3 for additional information.

## Section 12. Ecological information

12.1 Toxicity:Not available12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 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:** UN1197

14.2 UN Proper Shipping Name: EXTRACTS, FLAVOURING, 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





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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

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=25.00% EDI 1=75.00% EDI 2=22.73% SS 1=2.50%

**Total Fractional Values:** SCI 2=4.00 EDI 1=1.33 EDI 2=4.40 SS 1=40.00

Key to revisions:

Classification under Regulation (EC) No 1272/2008

## Key to abbreviations:

Abbreviation	Meaning
ATD 4	Acute Toxicity - Dermal Category 4
ATO 4	Acute Toxicity - Oral Category 4
EDI 1	Eye Damage / Irritation Category 1
EDI 2	Eye Damage / Irritation Category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
P260	Do not breathe vapour or dust.
P261	Avoid breathing vapour or dust.
P264	Wash hands and other contacted skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection.
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P301/330/331	If swallowed: Rinse mouth. Do not induce vomiting.
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.
P304/340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.





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P330	Rinse mouth.		
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.		
P405	Store locked up.		
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.		
SCI 1B	Skin Corrosion / Irritation Category 1B		
SS 1A	Sensitization - Skin Category 1A		

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.