

PERFUMER'S APPRENTICE

Issue date: 10/13/2017

Version: 2 (11/29/2016)

# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

**Product:** Brown Sugar Flavor 229X40

Version: 2

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

1.1 Product Identifier

**Product identifier:** Brown Sugar Flavor 229X40(Contains:4-Hydroxy-2,5-dimethyl-3(2H)-furanone, Furfuryl alcohol)

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:

Sensitization - Respiratory Category 1

Carcinogenicity Category 2

H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351, Suspected of causing cancer (exposure route).

2.2 Label elements

Signal word: Danger

Hazard statements: H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H351, Suspected of causing cancer (exposure route).

Supplemental

Information:

None

Precautionary

P202, Do not handle until all safety precautions have been read and understood.

**statements:** P261, Avoid breathing vapour or dust.

P285, In case of inadequate ventilation wear respiratory protection.





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P304/341, IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P308/313, IF exposed or concerned: Get medical advice/attention.

P342/311, If experiencing respiratory symptoms: Call a POISON CENTRE or a

doctor/physician. 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	REACH Registration No.	%	Classification for (CLP) 1272/2008
Vanillin	121-33-5	204-465-2		1-5%	EDI 2;H319,-
Furfuryl alcohol	98-00-0	202-626-1		1-5%	ATO 3-ATD 3-ATI 2- SCI 2-EDI 2-CAR 2- STO-SE 3(RI)-STO-RE 2;H301-H311-H315- H319-H330-H335- H351-H373,-
Veratraldehyde	120-14-9	204-373-2		1-5%	ATO 4;H302,-
Furfural	98-01-1	202-627-7		<1%	ATO 3-ATD 4-ATI 2- SCI 2-EDI 2-CAR 2- STO-SE 3(RI);H301- H312-H315-H319- H330-H335-H351
4-Hydroxy-2,5-dimethyl- 3(2H)-furanone	3658-77-3	222-908-8		<1%	EDI 2-SS 1A;H317- H319,-

# Substances with Community workplace exposure limits:

Name	CAS	EC	%
Furfural	98-01-1	202-627-7	<1%
Propylene glycol	57-55-6	200-338-0	80-90%





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

Not Applicable

# Section 4. First-aid measures

#### 4.1 Description of first aid measures

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.

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

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Suspected of causing cancer (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.

# 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. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation Do not eat, drink or smoke when using this product.

# 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 Value	
Furfural	98-01-1	202-627-7	UK WEL Long term mgm3	8
			UK WEL Long term ppm	2
			UK WEL Short term mgm3	20
			UK WEL Short term ppm	5
Propylene glycol	57-55-6	200-338-0	UK WEL Long term mgm3	474
			UK WEL Long term ppm	150

# 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





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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.

Also refer to Sections 2 and 7.

# Section 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Not determined Appearance: Not determined Odour: Odour threshold: Not determined Not determined pH: Melting point / freezing point: Not determined Initial boiling point / range: Not determined

93.33 °C Flash point:

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

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

Vapour pressure: Not determined Not determined Vapour density:

1.0610 Relative density:

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

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:

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation: Sensitization - Respiratory Category 1

**Germ cell mutagenicity:**Based on available data the classification criteria are not met.

Carcinogenicity: Carcinogenicity Category 2

Reproductive toxicity:

STOT-single exposure:

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
Furfural	98-01-1	202-627-7	100	1100	1	Vapour
Furfuryl alcohol	98-00-0	202-626-1	250	530	1	Vapour
Veratraldehyde	120-14-9	204-373-2	2000	Not available	INOt available	Not available

Refer to Sections 2 and 3 for additional information.





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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

# 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=20.00% CAR 2=53.33%

Total Fractional Values: SS 1=5.00 CAR 2=1.88





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Key to revisions:

Classification under Regulation (EC) No 1272/2008

# Key to abbreviations:

Abbreviation	Meaning
ATD 3	Acute Toxicity - Dermal Category 3
ATD 4	Acute Toxicity - Dermal Category 4
ATI 2	Acute Toxicity - Inhalation Category 2
ATO 3	Acute Toxicity - Oral Category 3
ATO 4	Acute Toxicity - Oral Category 4
CAR 2	Carcinogenicity Category 2
EDI 2	Eye Damage / Irritation Category 2
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer (exposure route).
H373	May cause damage to organs (organs) through prolonged or repeated exposure (exposure route).
P202	Do not handle until all safety precautions have been read and understood.
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.
P284	Wear respiratory protection.
P301/310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P301/312	IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell.
P302/352	IF ON SKIN: Wash with plenty of soap and water.
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.
P308/313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P332/313	If skin irritation occurs: Get medical advice/attention.
P333/313	If skin irritation or rash occurs: Get medical advice/attention.





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P337/313	If eye irritation persists: Get medical advice/attention.		
P361	Remove/Take off immediately all contaminated clothing.		
P362	Take off contaminated clothing and wash before reuse.		
P363	Wash contaminated clothing before reuse.		
P403/233/235	Store in a well-ventilated place. Keep container tightly closed. 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 1A	Sensitization - Skin Category 1A		
STO-RE 2	Specific Target Organ Toxicity (Repeated Exposure) Category 2		
STO-SE 3(RI)	Specific Target Organ Toxicity (Single Exposure) Category 3		

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.