

In accordance with REACH Regulation EC No.1907/2006

Product: Butterscotch Concentrate 232X54

Version:

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

1.1 Product Identifier

Product identifier:Butterscotch Concentrate 232X54(Contains:4-Acetoxy-2,5-dimethyl-3(2H)furanone, Ethyl
acetate, Ethyl lactate, Octanoic acid)Other identifiers:None

- 1.2 Relevant identified uses of the substance of mixture and uses advised against
- Product uses: Flavours

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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 telephor	ne 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	Skin Corrosion / Irritation Category 2		
danger:	Eye Damage / Irritation Category 2		
	Sensitization - Skin Category 1		
	Hazardous to the Aquatic Environment - Long-term Hazard Category 3		
	H315, Causes skin irritation.		
	H317, May cause an allergic skin reaction.		
	H319, Causes serious eye irritation.		
	H412, Harmful to aquatic life with long lasting effects.		
2.2 Label elements			
Signal word:	Warning		

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Hazard statements:	H315, Causes skin irritation.
	H317, May cause an allergic skin reaction.
	H319, Causes serious eye irritation.



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	H412, Harmful to aquatic life with long lasting effects.		
Supplemental Information:	None		
Precautionary statements:	 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. 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. P333/313, If skin irritation or rash occurs: Get medical advice/attention. P362, Take off contaminated clothing and wash before reuse. 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
4-Acetoxy-2,5-dimethyl- 3(2H)furanone	4166-20-5	435-910-0		1-5%	SS 1B-EH C2;H317- H411,-
Ethyl acetate	141-78-6	205-500-4		1-5%	FL 2-EDI 2-STO-SE 3 (NE);H225-H319-H336, EUH066
Octanoic acid	124-07-2	204-677-5		1-5%	SCI 1C-EDI 1-EH C3; H314-H412,-
Ethyl lactate	97-64-3	202-598-0		<1%	FL 3-EDI 1-STO-SE 3 (RI);H226-H318-H335,-

Substances with Community workplace exposure limits:



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Name	CAS	EC	%
Butyl lactate	138-22-7	205-316-4	<1%
Ethyl acetate	141-78-6	205-500-4	1-5%

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 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.

4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation.

May cause an allergic skin reaction.

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.



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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:

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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. 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
Putul lastata	138-22-7	205-316-4	UK WEL Long term mgm3	30
Butyl lactate	130-22-7		UK WEL Long term ppm	5
	144 70 6		UK WEL Long term ppm	200
Ethyl acetate	141-78-6	205-500-4	UK WEL Short term ppm	400

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



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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.

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
Odour threshold:	Not determined
pH:	Not determined
Melting point / freezing point:	Not determined
Initial boiling point / range:	Not determined
Flash point:	65.56 °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:	0.8990
Solubility(ies):	Not determined
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	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.



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10.3 Possibility of hazardous reactions:

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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	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:	Sensitization - Skin Category 1
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.
STOT-single exposure:	Based on available data the classification criteria are not met.
STOT-repeated exposure:	Based on available data the classification criteria are not met.
Aspiration hazard:	Based on available data the classification criteria are not met.

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:
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Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability: Not available

12.3 Bioaccumulative potential: Not available



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12.4 Mobility in soil:

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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:	EH C3=56.82% SCI 2=25.00% EDI 1=66.67% EDI 2=20.41% SS 1=25. 00%
Total Fractional Values:	EH C3=1.76 SCI 2=4.00 EDI 1=1.50 EDI 2=4.90 SS 1=4.00

Key to revisions:

Classification under Regulation (EC) No 1272/2008

Key to abbreviations:

Abbreviation

Meaning



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EDI 1 Eye Damage / Irritation Category 1 EDI 2 Eye Damage / Irritation Category 2 EH C2 Hazardous to the Aquatic Environment - Long-term Hazard Category 2 EH C3 Hazardous to the Aquatic Environment - Long-term Hazard Category 3 EUH066 Repeated exposure may cause skin dryness or cracking. FL 2 Flammable Liquid, Hazard Category 2 FL 3 Flammable Liquid, Hazard Category 3 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness H411 Toxic to aquatic life with long lasting effects H412 Harmful to aquatic life with long lasting effects. P210 Keep away from heat, sparks, open flames and hot surfaces. - No smoking. 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. P260 Do not breathe vapour or dust. P261 Avoid breathing vapour or dust. P264 Wash hands and other contacted skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. P273 P280 Wear protective gloves/eye protection/face protection. 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 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to P305/351/338 do. Continue rinsing P310 Immediately call a POISON CENTER or doctor/physician P312 Call a POISON CENTRE or doctor/physician if you feel unwell. P333/313 If skin irritation or rash occurs: Get medical advice/attention. P337/313 If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. P363 P370/378 In case of fire: Use carbon dioxide, dry chemical, foam for extinction. P391 Collect spillage P403/233/235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.



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P405	Store locked up.
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.
SCI 1C	Skin Corrosion / Irritation Category 1C
SS 1B	Sensitization - Skin Category 1B
STO-SE 3(NE)	Specific Target Organ Toxicity (Single Exposure) Category 3
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.