



Version: 1 (01/28/2020)

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Mango Natural Concentrate 22348

Version: 1

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

1.1 Product Identifier

Product identifier: Mango Natural Concentrate 22348(Contains:4-Hydroxy-2,5-dimethyl-3(2H)-furanone, Acetic

acid, Butyric acid, d-Limonene)

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

(831)316-7137 Company phone: 1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

danger:

Class and category of Flammable Liquid, Hazard Category 2

Skin Corrosion / Irritation Category 1B Eye Damage / Irritation Category 1 Sensitization - Skin Category 1

Specific Target Organ Toxicity (Single Exposure) Category 3

H225, Highly flammable liquid and vapour.

H314, Causes severe skin burns and eye damage.

H317, May cause an allergic skin reaction. H336, May cause drowsiness or dizziness.

2.2 Label elements

Signal word: Danger

Hazard statements: H225, Highly flammable liquid and vapour.

H314, Causes severe skin burns and eye damage.





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H317, May cause an allergic skin reaction. H336, May cause drowsiness or dizziness.

Supplemental Information:

EUH208, Contains alpha-Pinene. May produce an allergic reaction.

Precautionary statements:

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.

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.

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

P301/330/331, If swallowed: Rinse mouth. Do not induce vomiting.

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.

P333/313, If skin irritation or rash occurs: Get medical advice/attention.

P363, Wash contaminated clothing before reuse.

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

P403/233/235, 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.

Pictograms:



Other hazards: None



PERFUMER'S

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Section 3. Composition / information on ingredients

3.2 Mixtures

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008
d-Limonene	5989-27-5	227-813-5		10-20%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-
Acetic acid	64-19-7	200-580-7		1-10%	Flam. Liq. 3-Skin Corr. 1A-Eye Dam. 1;H226- H314,-
Butyric acid	107-92-6	203-532-3		1-5%	Acute Tox. 4-Skin Corr. 1B-Eye Dam. 1;H302- H314,-
Hexyl alcohol	111-27-3	203-852-3		1-5%	Flam. Liq. 3-Acute Tox. 4-Acute Tox. 4-Eye Irrit. 2;H226-H302- H312-H319,-
alpha-Pinene	80-56-8	201-291-9		1-5%	Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1-Aquatic Acute 1- Aquatic Chronic 1; H226-H304-H315- H317-H410,-
4-Hydroxy-2,5-dimethyl-3(2H)-furanone	3658-77-3	222-908-8		1-5%	Eye Irrit. 2-Skin Sens. 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

Section 4. First-aid measures

4.1 Description of first aid measures

If swallowed: Rinse mouth. Do not induce vomiting.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

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 do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.





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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.

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:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.





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

Flash point: 19.4 °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 determinedVapour density:Not determined

Relative density: 0.9000

Solubility(ies):

Partition coefficient: n-octanol/water:

Auto-ignition temperature:

Not determined

Not determined

Not determined

Not determined

Not determined

Viscosity:

Not determined





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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.

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:Skin Corrosion / Irritation Category 1BSerious eye damage/irritation:Eye Damage / Irritation Category 1Respiratory 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:

Specific Target Organ Toxicity (Single Exposure) Category 3

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





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Ingredient	CAS	EC	LD50/ATE Oral	LD50/ATE Dermal	LC50/ATE Inhalation	LC50 Route
Butyric acid	107-92-6	203-532-3	1630	Not available	INot available	Not available
Hexyl alcohol	111-27-3	203-852-3	500	1750	INOT 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: UN2924

14.2 UN Proper Shipping Name: FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethyl isobutyrate, Acetic

acid)

14.3 Transport hazard class(es): 3

Sub Risk: 8

14.4. Packing Group:

14.5 Environmental hazards: This is an environmentally hazardous substance.

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 None additional

15.2 Chemical Safety Assessment

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





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Section 16. Other information

Concentration % Limits: EH C2=19.23% EH C3=1.92% SCI 1C=62.50% SCI 2=25.64% EDI 1=37.

50% EDI 2=34.31% SS 1=8.70% AH 1=76.92%

Total Fractional Values: EH C2=5.20 EH C3=52.00 SCI 1C=1.60 SCI 2=3.90 EDI 1=2.67 EDI 2=2.

92 SS 1=11.50 AH 1=1.30

Key to revisions:

Not applicable

Key to abbreviations:

Abbreviation	Meaning		
Acute Tox. 4	Acute Toxicity - Oral Category 4		
Acute Tox. 4	Acute Toxicity - Dermal Category 4		
Aquatic Acute 1	Hazardous to the Aquatic Environment - Acute Hazard Category 1		
Aquatic Chronic 1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1		
Asp. Tox 1	Aspiration Hazard Category 1		
Eye Dam. 1	Eye Damage / Irritation Category 1		
Eye Irrit. 2	Eye Damage / Irritation Category 2		
Flam. Liq. 3	Flammable Liquid, Hazard Category 3		
H226	Flammable liquid and vapour.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
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.		
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.		
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.		

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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.			
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.			
P330	Rinse mouth.			
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.			
P363	Wash contaminated clothing 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.			
Skin Corr. 1A	Skin Corrosion / Irritation Category 1A			
Skin Corr. 1B	Skin Corrosion / Irritation Category 1B			
Skin Irrit. 2	Skin Corrosion / Irritation Category 2			
Skin Sens. 1A	Sensitization - Skin Category 1A			
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.