

In accordance with REACH Regulation EC No.1907/2006

Product: Prickly Pear Concentrate 233C36

Version:

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

1.1 Product Identifier

Product identifier: Prickly Pear Concentrate 233C36(Contains:2-Methylbutyric acid, Ethyl acetate, Ethyl lactate, cis-3-Hexenol) Other identifiers:

None

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

Product uses: Flavours

1

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 danger:	Flammable Liquid, Hazard Category 3 Skin Corrosion / Irritation Category 2 Eye Damage / Irritation Category 2
	Hazardous to the Aquatic Environment - Long-term Hazard Category 2 H226, Flammable liquid and vapour.
	H315, Causes skin irritation.
	H319, Causes serious eye irritation.
	H411, Toxic to aquatic life with long lasting effects.
2.2 Label elements	

Signal word:	Warning
Hazard statements:	H226, Flammable liquid and vapour.
	H315, Causes skin irritation.
	H319, Causes serious eye irritation.

...



In accordance with REACH Regulation EC No.1907/2006

Product:	Prickly Pear Concentrate 233C36
Fioduci.	Thory Tear Concentrate 200000
Version:	1
	H411, Toxic to aquatic life with long lasting effects.
Supplemental Information:	EUH208, Contains Geranyl acetate. May produce an allergic reaction.
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.
	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. 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.
	P391, Collect spillage.
	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

3.2 Mixtures

Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008
cis-3-Hexenol	928-96-1	213-192-8		10-20%	FL 3-EDI 2;H226-H319, -

Section 3. Composition / information on ingredients



In accordance with REACH Regulation EC No.1907/2006

Product: Prickly Pear Concentrate 233C36

1

Version:

Ethyl acetate	141-78-6	205-500-4	1-10%	FL 2-EDI 2-STO-SE 3 (NE);H225-H319-H336, EUH066
2-Methylbutyric acid	116-53-0	204-145-2	1-10%	ATO 4-ATD 4-SCI 1B- EDI 1;H302-H312- H314,-
Ethyl lactate	97-64-3	202-598-0	1-10%	FL 3-EDI 1-STO-SE 3 (RI);H226-H318-H335,-
Isobutyl acetate	110-19-0	203-745-1	1-10%	FL 2-STO-SE 3(NE); H225-H336,EUH066
Geranyl acetate	105-87-3	203-341-5	<1%	SCI 2-SS 1B-EH C3; H315-H317-H412,-
dl-Limonene (racemic)	138-86-3	205-341-0	<1%	FL 3-SCI 2-SS 1B-AH 1-EH A1-EH C1;H226- H304-H315-H317- H410,-
beta-Caryophyllene	87-44-5	201-746-1	<1%	AH 1;H304,-
3,7-Dimethyl-1,3,6- octatriene	13877-91-3	237-641-2	<1%	FL 3-AH 1;H226-H304, -

Substances with Community workplace exposure limits:

Name	CAS	EC	%
Ethyl acetate	141-78-6	205-500-4	6.00%
Isobutyl acetate	110-19-0	203-745-1	4.00%

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 (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 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.



In accordance with REACH Regulation EC No.1907/2006

Product: Prickly Pear Concentrate 233C36

Version:

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:

1

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: Use in accordance with good manufacturing and industrial hygiene practices.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits:



In accordance with REACH Regulation EC No.1907/2006

Product: Prickly Pear Concentrate 233C36

1

Version:

Ingredient	CAS	EC	Description	Value
Ethyl costate			UK WEL Long term ppm	200
Ethyl acetate	141-78-6	205-500-4	UK WEL Short term ppm	400
			UK WEL Long term mgm3	724
Isobutyl acetate 110-19-0 2	203-745-1	UK WEL Long term ppm	150	
		UK WEL Short term mgm3	903	
			UK WEL Short term ppm	187

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 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

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:	30.56 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Upper/lower flammability or explosive limits:	Product does not present an explosion hazard



Page 6 (10) Issue date: 09/19/2018 Version: 1 (09/19/2018)

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Dura durati	Dest a Late a	D	0	
Product:	Prickly	Pear	Concentrate	233036

1

Version:

Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	0.8820
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.

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 2



In accordance with REACH Regulation EC No.1907/2006

Product:	Prickly Pear Concentrate	233C36

1

Version:

Serious eye damage/irritation:	Eye Damage / Irritation Category 2
Respiratory or skin sensitisation:	Based on available data the classification criteria are not met.
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

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:

Toxic 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

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:	III



In accordance with REACH Regulation EC No.1907/2006

Product: Prickly Pear Concentrate 233C36

Version:

14.5 Environmental hazards:

1

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.

Section 16. Other information

Concentration % Limits:	SCI 2=25.00% EDI 1=37.50% EDI 2=9.90%
Total Fractional Values:	SCI 2=4.00 EDI 1=2.67 EDI 2=10.10

Key to revisions:

Not applicable

Key to abbreviations:

Abbreviation	Meaning
AH 1	Aspiration Hazard Category 1
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
EH A1	Hazardous to the Aquatic Environment - Acute Hazard Category 1
EH C1	Hazardous to the Aquatic Environment - Long-term Hazard Category 1
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.
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.
H318	Causes serious eye damage.



In accordance with REACH Regulation EC No.1907/2006

Product: Prickly Pear Concentrate 233C36

1

Version:

H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness H410 Very 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. 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. P271 Use only outdoors or in a well-ventilated area. 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. 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. 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. 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. P403/233/235 Store in a well-ventilated place. Keep container tightly closed. Keep cool. 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 1B Skin Corrosion / Irritation Category 1B SCI 2 Skin Corrosion / Irritation Category 2



In accordance with REACH Regulation EC No.1907/2006

Product: Prickly Pear Concentrate 233C36

1

Version:

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.