

Certificate of Analysis

Batch Details

Product Name: APPLELIQUIDFRUITEXTRACT

Batch No: 4371006

Best Before End: SEPTEMBER 2021

Quality Control Results

Analytical Te	st	Specification	on Limit		
Method No.	Characteristic	Lower	Upper	Value	Unit Status
	Addendum 00	PASS OR FAIL		Pass	р
	REVISION NUMBER	1.0		Pass	p
AC018000	ASPECT	LIQUID		Pass	p
AC018000	ASPECT	CLEAR TO SLIGH	HTLY	Pass	p
		OPALESCENT			
AC018000	ASPECT	SLIGHT SEDIMEN POSSIBLE	NTATION	Pass	p
.±01 S000	COLOUR	PALE YELLOW TO	0	Pass	р
		YELLOW			
AC018000	ODOUR	CHARACTERISTI	C	Pass	p
FC0031AO	SPECIFIC GRAVITY (20°C)	0.995	1.025	1.024	p
FC0032AO	REFRACTIVE INDEX (20°C)	1.320	1.350	1.342	p
FC0064AO	pH VÁLUE (20°C)	4.5	6.5	4.6	p
JC0054B0	MOULDS/YEASTS	10 MAX CFU/G		Pass	p

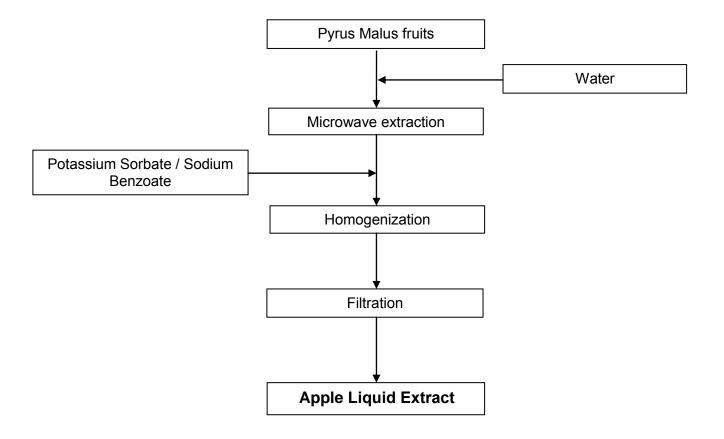
Long term storage between 15 - 25°C, dark in closed containers. The performed analysis are guaranteed on original packaging

Batch Status: Pass

The quality tests on this batch are reported above. The tests carried out are those necessary to demonstrate compliance with our product specification and are not intended to guarantee the product as suitable for any application beyond those contained in the specification. We recommend you perform your own quality and or identification checks on receipt



Flow Chart of Apple Liquid Fruit Extract





Apple Liquid Fruit Extract

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE

1. 1. Product identifier: Fruitliquid Alpine Apple D22700

1. 2. Relevant identified uses of the substance or mixture and uses

Personal and/or home care products (according to in force regulations)

2. HAZARDS IDENTIFICATION

2. 1. Classification of the substance or

mixture:

The product does not need to be labelled in accordance with regulation (CE) 1907/2006 - 1999/45 with their modifications and adaptations on classification, packaging and labelling of

dangerous substances

2. 2. EC number: Not applicable.

2. 3. Label elements (R - S):

2. 3. 1. Symbol(s): None according to the regulation (EC) No 1907/2006 - 1999/45 with their modifications and

adaptations.

2. 3. 2. R-phrase(s): None according to the regulation (EC) No 1907/2006 - 1999/45 with their modifications and

adaptations.

2. 3. 3. S-phrase(s): None according to the regulation (EC) No 1907/2006 - 1999/45 with their modifications and

adaptations.

2. 4. Most important hazards: none

2. 5. Other hazards: Not determined.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3. 1. Component(s) contributing to the hazard:

• Benzoate de sodium

- CAS nr: 532-32-1

- Conc. (w eight %) : 0 < C <= 0,3

- SGH: SGH07 - Irr. oc. 2A - Exclamation mark - Warning - H319

• sel de potassium de l'acide 2,4-Hexadiène-oïque

- CAS nr: 24634-61-5

- Conc. (w eight %) : $0 < C \le 0.3$

- R-S: Symbol(s): Xi - R-phrase(s): 36/37/38

- SGH: SGH07 - Skin Irrit. 2 - Exclamation mark - Warning - H315 - Irr. oc. 2A - H319

• Citric Acid

- CAS nr: 5949-29-1

- Conc. (w eight %) : $0 < C \le 0.3$

- R-S : Symbol(s): Xi - R-phrase(s): 36

- SGH: SGH07 - Irr. oc. 2A - Exclamation mark - Warning - H319 - Irr. oc. 2B

The wording of the sentences are mentioned at heading 16.

4. FIRST AID MEASURES

4. 1. Description of first aid measures:

4. 1. 1. General advice: In case of doubt or persistent symptoms, consult always a physician.



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4. 1. 2. Inhalation: Move to fresh air in case of accidental inhalation.

4. 1. 3. Skin contact: Wash skin with plenty of water and soap.

4. 1. 4. Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

4. 1. 5. Ingestion: If accidentally sw allow ed obtain immediate medical attention. Keep at rest. Do NOT induce

vomiting.

4. 2. Most important symptoms and effects, both acute and delayed:

There is no data available on the product itself.

4. 2. 1. Inhalation:

No data available.
No data available.

4. 2. 3. Eyes contact:

No data available.

4. 2. 4. Ingestion:

No data available.

4. 3. Indication of any immediate medical attention and special treatment

No data available.
Notes to physician

needed:

5. FIREFIGHTING MEASURES

5. 1. Extinguishing media: foam, pow der, carbon dioxide (CO2)

5. 2. Special hazards arising from the

substance or mixture:

In case of fire and/or explosion do not breathe fumes.

5. 3. Advice for firefighters: Standard

5. 4. Specific method(s): Do not allow run-off from fire fighting to enter drains or water courses.

5. 5. Extinguishing media w hich must NOT be used for safety reasons:

Do not use water jet.

6. ACCIDENTAL RELEASE MEASURES

6. 1. Personal precautions, protective equipment and emergency procedures:

Concerning personal protective equipment to use, see item 8.

6. 2. Environmental precautions: Dike and contain spill. Prevent product from entering drains. Concerning disposal elimination

after cleaning, see item 13.

6. 3. Methods and material for containment and cleaning up:

Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth,

vermiculite, diatomaceous earth

6. 4. Reference to other sections: Concerning personal protective equipment to use, see item 8.

7. HANDLING AND STORAGE

7. 1. Handling:

7. 1. 1. Precautions for safe Smoking, eating and drinking is prohibited in areas of storage and use. For personal protection,

handling: see Section 8.

7. 1. 2. Technical condition(s): The product should only be used in areas from w hich all naked lights and other sources of

ignition have been excluded.

7. 1. 3. Safe handling advice(s): Opened containers must be carrefully closed and kept uprigth to avoid leakage.

7. 2. Storage:

7. 2. 1. Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Store always product in container of same material as original container.

7. 2. 2. Technical condition(s): Not applicable

7. 2. 3. Storage condition(s): Recommended storage temperature: 15-25 ℃

7. 2. 4. Separation of incompatible No incompatible products to be specially mentioned. product(s):

7. 2. 5. Packaging / tank material: made of the same material as the supply container.



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7. 3. Specific end use(s): Not determined.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8. 1. Control parameters:

8. 1. 1. Exposure limit(s):

No data available.

8. 2. Exposure controls:

No personal breathing protective equipment is normally required. 8. 2. 1. Respiratory protection:

8. 2. 2. Hand protection: Wear suitable gloves. (natural rubber gloves., Latex gloves, PVC or other plastic material

gloves)

8. 2. 3. Skin and body protection: protective clothing

8. 2. 4. Eye protection: Eye protection designed to protect against liquid splashes should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

9. 1. Information on basic physical and chemical properties:

9. 1. 1. Appearance: Clear liquid 9. 1. 2. Colour: pale yellow 9. 1. 3. Odour: characteristic 9. 1. 4. PH: Approx. 4,6 (20 °C) 9. 1. 5. Boiling point/range: Not determined.

9. 1. 6. Flash point: > 100℃

9. 1. 7. Explosion limits: Not determined. 9. 1. 8. Relative density (w ater = 1): Approx. 1.133 (20 °C) 9. 1. 9. Viscosity: Not determined.

9. 2. Other information:

Yes 9. 2. 1. Water solubility: 9. 2. 2. Fat solubility: Nο

9. 2. 3. Solvent solubility: soluble in most organic solvents

10. STABILITY AND REACTIVITY

10. 1. Reactivity: Stable under the recommended storage and handling conditions. (See Section 7).

10. 2. Chemical stability: Stable in use and storage conditions as recommended in item 7. 10. 3. Possibility of hazardous Stable in use and storage conditions as recommended in item 7.

None under normal use.

reactions:

10. 4. Conditions to avoid:

No data available. 10. 5. Incompatible materials: 10. 6. Hazardous decomposition

products:

No data available.

11. TOXICOLOGICAL INFORMATION

11. 1. Information on toxicological Health injuries are not known or expected under normal use.

effects:



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11. 2. Acute toxicity:

No data available. 11. 2. 1. Inhalation: 11. 2. 2. Skin contact: No data available. 11. 2. 3. Eyes contact: No data available. 11. 2. 4. Ingestion: No data available.

12. ECOLOGICAL INFORMATION

12. 1. Toxicity: Ecological problems are not known or expected under normal use.

12. 2. Persistence and degradability: Contains no substances known to be not biodegradable in waste water treatment plants.

Not determined. 12. 3. Bioaccumulative potential: Not determined. 12. 4. Mobility in soil: 12. 5. Results of PBT and vPvB Not determined.

assessment.

12. 6. Other adverse effects: Not determined.

12. 7. General information(s): The product should not be allowed to enter drains or water courses or be deposited where it

can affect ground or surface w aters.

13. DISPOSAL CONSIDERATIONS

13. 1. Waste treatment methods: Collect all waste in suitable and labelled containers and dispose according to local legislation.

13. 2. Contaminated packaging: Wastes, including emptied containers, are controlled wastes and should be disposed of in

accordance with regulations made under the Control of Pollution Act and the Environmental

Protection Act.

14. TRANSPORT INFORMATION

14. 1. General information(s): Not classified as dangerous in the meaning of transport regulations.

14. 2. UN number: Not applicable.

14. 6. Environmental hazards: Ecological problems are not known or expected under normal use.

14. 7. Special precautions for user: For personal protection, see Section 8.

14. 8. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

15. REGULATORY INFORMATION

15. 1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

The user is always responsible for ensuring that the requirements of relevant legislation are complied with.

15. 2. Chemical safety assessment: Not applicable.

15. 3. Important remarks: WGK Class: 1 (self classification)

16. OTHER INFORMATION

16. 1. Text of R phrases listed in section 3:

R36/37/38 Irritating to eyes, respiratory system and skin.

R36 Irritating to eyes.

H319 Causes serious eye irritation. H315 Causes skin irritation.

16. 2. Important remarks: As the specific conditions of use of the product are outside the supplier's control, the user is

responsible for ensuring that the requirements of relevant legislation are complied with.

16. 3. References and / or

bibliography:

Code ED6.08.06b



Apple Liquid Fruit Extract

Version: 1 First edition date: 17/09/2013

16. 4. 1. First edition date: 17/09/2013

16. 4. 2. Version: 1

16. 5. Written by: Crodarom



Date: 30/08/2018

REACH STATEMENT

MADAR Corporation is committed to meet the requirements set out in the REACH (Registration Evaluation and Authorization of Chemicals) regulations and we are working with our suppliers to ensure a continued supply of the below mentioned product.

Below listed product is so called preparation composed of ingredients (named under REACH as substances).

Apple Liquid Fruit Extract

INCI	CAS	EINECS	REACH status	Comment
Water	7732-18-5	231-791-2	/	1
Pyrus Malus (Apple) Fruit Extract	85251-63-4	286-475-7	Exempt	Production <1T/yr
Potassium sorbate	24634-61-5	246-376-1	Registered	01-2119950315-41
Sodium Benzoate	532-32-1	208-534-8	Registered	01-2119460683-35

If in the future the amount of a substance produced by our supplier would exceed the 1T/year limit, they will ensure its registration.

Substances of Very High Concern (SVHC; in REACH's Appendix XIV substances' list subjected to authorization) have not been added in the above mentioned product and are not expected to be impurities of the raw materials used in this product

This information is given in good faith and is based on our knowledge to date.

Non-warranty

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Specification

Product Name: APPLE LIQUID FRUIT EXTRACT

Product Code: FEAPPL Specification: 22/05/2014

Period of validity of Certificate of Analysis for material stored in unopened containers and stored in cool dry conditions (unless otherwise specified): 730 days.

Analy. Test Method No.	Characteristic	Specification Lin Lower	nits Upper	Units
	REVISION NUMBER	1.0		
AC018000	ASPECT	LIQUID		
AC018000	ASPECT	CLEAR TO S	SLIGHTLY	
		OPALESCE		
AC018000	ASPECT	SLIGHT SEDIMENTATION		
		POSSIBLE		
AC018000	COLOUR	PALE YELLOW TO		
		YELLOW		
AC018000	ODOUR	CHARACTERISTIC		
FC0031A0	SPECIFIC GRAVITY	0.995	1.025	
	(20°C)			
FC0032A0	REFRACTIVE INDEX	1.320	1.350	
	(20°C)			
FC0064A0	pH VALUE (20°C)	4.5	6.5	
JC0054B0	MOULDS/YEASTS	10 MAX CFU/G		
JC0054B0	TOTAL GERMS	100 MAX CFU/G		

Long term storage between 15 - 25°C, dark in closed containers The performed analysis are guaranteed on original packaging When stored accordingly, stable for 24 months



Apple Liquid Fruit Extract



PLANT INFORMATION

<u>Latin name</u> Pyrus malus <u>Family</u> Rosaceae

Common names

English: Apple Portuguese: Maçã French: Pomme リンゴ Japanese: German: Chinese: 蘋果 Apfel Spanish: Manzana Russian: яблоко

History / Uses

Wild Apple (*Pyrus malus*), is native to Britain and is the wild ancestor of all the cultivated varieties of apple trees. It is known since the Genesis. In the Antiquity, doctors already prescribed apple wine as a cure-all. They are a traditional remedy for joint pain and stiffness due to rheumatism.

Apple contains proteins, starch, sugars, acids, vitamins and salts. The sugar content of a fresh apple varies from 6 to 10 per cent., according to the variety. All apples contain a varying amount of the organic acids, malic acid and gallic acid, and an abundance of as magnesium and iron.

In cosmetics, apples are claimed for emollient, hydrating, stimulating and tonifying properties.

Active molecules / Related properties

Carbohydrates (mainly fructose, glucose, sucrose) Moisturising, smoothing, conditioning

Fruit acids Mild keratolytic / bleaching, antibacterial

Vitamins, minerals Regenerating

Used plant characteristics

Plant part	Certified geographic origin	Organic certified	Fair trade	FSC
Fruit	The Italian Alps	No	No	No



PRODUCT INFORMATION

INCI Name Glycerin, Water, Pyrus Malus (Apple) Fruit Extract

CAS Number 56-81-5, 7732-18-5, 85251-63-4 **EINECS Number** 200-289-5, 231-791-2, 286-475-7

<u>Preservative</u> Sodium benzoate, potassium sorbate

Manufacturing process Maceration

<u>Appearance</u> Pale yellow, clear liquid (has to be confirmed on industrial batch)

Guarantee / Certification

Organic certified	Natural validated	Certifiable	Chinese regulation	Active level	Proven effect
No	No	No	SFDA 2003 SFDA 2007	No	No

Application / Concept

Cosmetic application

Everyday-nourishing-care After-sun care After-shave products Shampoos for dry hair and scalp Mild facial cleansers Shower gels

Concept / Trends

Refreshing concepts Modesty trend (Earthly)

Formulation Advices

Recommended level of use Max. 10%

<u>Solubility</u> Water: soluble / Alcohol: soluble / Oil: insoluble (at T0)

<u>Stability</u> pH3: not tested / pH10: not tested (at 2% in unpreserved water)

Precaution Add to the formula at 40°C max.

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Toxicological dossier Apple Liquid Fruit Extract

Article No: FEAPPL

INCI Name: Water, Pyrus Malus (Apple) Fruit Extract

INCI Name EU: to follow Cosing, the European Commission database

on http://ec.europa.eu/consumers/cosmetics/cosing/

Composition:

(A: > 50 %; B: 25 - 50 %; C: 10 - 25 %; D: 5 - 10 %; E: 1 - 5 %; F: 0.1 - 1 %; G: < 0.1 %)

Water A
Pyrus Malus (Apple) Fruit Extract* B

Origin of raw materials:

Plant origin : Pyrus Malus

plant part : Fruit
 from organic culture : Yes
 free of GMO : Yes

Synthetic origin : Preservatives

Animal origin : No

Preservatives: Potassium Sorbate approx. 0.4%

Sodium Benzoate approx. 0.1%

Antioxidant: None

Manufacturing process: Microwaves extraction of organically

cultivated, dried, peeled apples in water followed by preservation, filtration,

conditioning and filling

^{*} Pyrus Malus (Apple) Fruit Extract is expressed as **fresh** fruits.

Microbiological Data:

 \Rightarrow Bacteria < 100 cfu / g \Rightarrow Moulds and yeasts < 10 cfu / g \Rightarrow Pathogenic Micro-organisms Not tested

Contamination by trace elements:

⇒ Heavy metals : Total heavy metals expressed as Pb

< 10 ppm according to Ph. Eur. 2.4.8 method C or USP $<\!231\!>$ method II.

Conclusion by analogy

⇒ Pesticides: Pesticides are expected to pass

DFG S 19 (according to

"Rückstandshöchstmengenverordnung")

Conclusion by analogy

⇒ Impurities : Not expected – not tested

Impurities are residual monomer, dioxane, chloroacetic acid, 3-Chloropropanol, nitrosamines, amine, polychloro biphenyls, benzene, nuts, polychloro dibenzo dioxins and dibenzo furans and dimethyl aminopropylamine

⇒ Residual solvents: Not expected – not tested

The plants used for Apple Liquid Fruit Extract have been organically cultivated. Therefore pesticides, heavy metals or impurities are not expected.

Total volatile components / Allergens content :

We herewith confirm that **Apple Liquid Fruit Extract**, meets the following properties:

CAS-No.	Allergen	Content expected
122-40-7	Amyl cinnamic aldehyde	< 1ppm*
101-85-9	Amyl cinnamic alcohol	< 1ppm*
105-13-5	Anisyl alcohol	< 1ppm*
100-51-6	Benzyl alcohol	< 1ppm*
120-51-4	Benzyl benzoate	< 1ppm*
103-41-3	Benzyl cinnamate	< 1ppm*
118-58-1	Benzyl salicylate	< 1ppm*
104-55-2	Cinnamic aldehyde	< 1ppm*
104-54-1	Cinnamic alcohol	< 1ppm*
5392-40-5	Citral	< 1ppm*
106-22-9	Citronellol	< 1ppm*
91-64-5	Coumarin	< 1ppm*
97-53-0	Eugenol	< 1ppm*
4602-84-0	Farnesol	< 1ppm*
106-24-1	Geraniol	< 1ppm*
101-86-0	Hexyl cinnamaldehyde	< 1ppm*
107-75-5	Hydroxycitronellal	< 1ppm*
97-54-1	Isoeugenol	< 1ppm*
80-54-6	Lilial	< 1ppm*
5989-27-5	d-Limonene	< 1ppm*
78-70-6	Linalool	< 1ppm*
31906-04-4	Lyral	< 1ppm*
111-12-6	Methyl heptine carbonate	< 1ppm*
127-51-5	Methyl ionone alpha iso	< 1ppm*
90028-68-5	Oakmoss	< 1ppm*
90028-67-4	Tree Moss	< 1ppm*

*not expected as a component of the fruits of Pyrus malus

None of the 26 identified allergen perfume compounds (Directive 2003/15 EC) have been added to the product.

The absence of any of these 26 allergens cannot be confirmed, but we attest that they cannot technically occur due to the extraction process used.

The single contents are based on risk estimation which is based on botanical and phytomedicinal reference literature and conclusions by analogy.

Hazardous & CMR Substances

We herewith confirm that, with reference to the confirmation of our raw materials suppliers, we do not add any CMR (Carcinogenic, Mutagenic, Toxic for reproduction) substances graded 1A, 1B or 2 in accordance with the Annex VI of the European Regulation 1272/2008 and its amendments to our product listed below.

Apple Liquid Fruit Extract

The product fulfils the requirement of Article 15 of the European Regulation 1223/2009 and its amendments.

Botanical preparations which contain technically unavoidable traces or impurities of plant constituents listed as CMR in the European Regulation 1272/2008.are not affected by the exclusion listed in Article 15 of the European Regulation 1223/2009.

Animal testing

MADAR Corporation confirms that our products have not been tested on animals in order to meet the requirements of the Cosmetic Regulation and we will not carry out animal tests in the future to meet the requirements of the Cosmetic Regulation.

We are aware that the individual substances that comprise our products may have been tested on animals in the past, but these tests were not carried out either by or on the request of MADAR Corporation.

MADAR Corporation therefore confirms the compliance of our products with the Cosmetic Regulation 1223/2009 concerning the ban on testing in animals in order to meet the requirements of the Cosmetic Regulation.

Main actives in the plant: (1)(2)(3)

Apples contain mainly water, proteins, fats, fibers and:

- Carbohydrates (mainly Glucose, Fructose, Saccharose, Sorbitol, Polysaccharides as Cellulose, Hemicellulose, Fucogalactosyloglucan, Pentosane and Pectin)
- ⇒ Fruit acids (mainly Malic Acid)
- ⇒ Provitamin A, Vitamin B types, C, H
- ⇒ Phenolics (mainly Hydroxycinnamic acids and Hydroxybenzoic acids, P-cumaric Acid, Caffeic Acid, Ferulic Acid, Catechin, Epicatechin, Gallocatechin)

Total phenol content in dried apples : approx 1000mg/100g according to literature

Main actives in the extract: Not determined

Toxicological Data:

We do not see any danger in using Apple Liquid Fruit Extract in cosmetic agents taking into account the application form, the concentration, the amount used and the frequency of use.

We haven't carried out clinical studies on Apple Liquid Fruit Extract, but according to literature, Water and Pyrus malus don't contain potentially toxic compounds and they are safe when used appropriately.

Apples, fruits of Pyrus malus are eaten since hundreds of years. No adverse effects are reported. There is no data on the side effects and toxicology of the fruits.

Human skin irritation: No data available Mucous membrane irritation: No data available Sensitisation potential: No data available Cytotoxicity: No data available Phototoxicity: No data available \Rightarrow Mutagenicity (e.g. Ames Test): No data available \Rightarrow Carcinogenicity: No data available \Rightarrow Acute toxicity: No data available \Rightarrow

⇒ Inhalation toxicity: No data available
 ⇒ Chronic toxicity: No data available
 ⇒ Reproduction toxicity: No data available

Toxicological information about main actives of the plant:

⇒ Carbohydrates Toxic effects aren't reported.

⇒ Malic Acid (4):

Dermal irritation on animals: Moderately irritant to rabbit skin and strong irritant to

guinea pig.

Eye irritation: Severe ocular irritation in rabbit eyes.

Mutagenicity (e.g. Ames Test): Ames test: not mutagenic

Acute toxicity: LD_{50} (rat) = 1.60 – 3.5 g/kg bw by oral route

 LD_{50} (mice) = 2.66 – 3.2 g/kg bw by oral route LD_{50} (rabbit) = 3 – 5 g/kg bw by oral route

 LD_{50} (rabbit) = 2.4 g/kg bw by intravenous injection

Chronic toxicity: No significant changes or lesions were observed

when dogs were fed malic acid.

Reproduction toxicity: It did not cause reproductive toxicity in mice, rats

and rabbits.

⇒ Apple polyphenols (2):

Apple polyphenol extracts are listed in the FDA's approved additive/GRAS (Generally Recognized as Safe) database.

Acute toxicity: LD50 (rat, subcutaneous) = 2000mg/kg

Sensitisation potential: Tests using rabbits indicated that procyanidin B-2

containing preparations shows no primary irritation.
Tests on guinea pigs shows no evidence of

sensitization to this polyphenol.

Topically, procyanidin B-2 is concluded as safe and

acceptable.

Mutagenicity (e.g. Ames Test): Procyanidin B-2 is non mutagenic.

Applephenon is safe and no toxic at average dietary level.

Ecological Data:

Our product contains mainly water.

⇒ Environmental toxicity: Not expected to be toxic
 ⇒ Biodegradability: Easily biodegradable
 ⇒ Water hazard class: 1 (self classification)

Phytopharmaceutical Data:

⇒ External uses: used in everyday-nourishing-care, after-sun care,

after-shave products, shampoos for dry hair and

scalp, mild facial cleansers, shower gels

⇒ Contraindications : None known
 ⇒ Side effects : None known
 ⇒ Interactions: None known

References:

- 1. Hager CDRom 2010 ; Springer Medizin Verlag Heidelberg; information regarding Pyrus malus
- 2. http://www.mdidea.com/products/proper/proper00714.html
- 3. Constituents of apple, parsley and lentil edible plants and their therapy treatments for blood picture as well as liver and kidneys functions against lipidemic disease, El-Beltagi, H.S et al. EJEAFChe, 9 (6), 2010. [1117-1127]
- 4. CIR Report, CTFA 2006 for toxicological information regarding Malic Acid

02/16

This toxicological dossier replaces the earlier one dated 08/11

Non-warranty

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Date: 31.05.2017

To whom it may concern:

ORIGIN STATEMENT

We herewith confirm that the product Fruit liquid Apple EC, is produced from synthetic and plants from organically cultivated origin raw materials, with reference to the confirmation of our raw materials suppliers.

This product is derived from non animal sources and does not contain material of bovine, ovine, caprine origin with reference to the confirmation of our raw materials suppliers.

According our knowledge and the confirmation of our suppliers, this product:

- Does not contain any genetically modified organism
- □ Is not produced with help of genetic engineering techniques

However, this confirmation does not permit any claims such as "produced without genetically modified organism" for products manufactures from our delivered product, according the EC regulations N° 1829/2003 and 1830/2003 because this law is not applicable to non-food products.

This information is given in good faith and is based on our knowledge to date. This correspondence will not be automatically updated in the future.



Date: 01.06.2017

To whom it may concern:

STATEMENT

We hereby confirm that the below mentioned product is derived from non-animal sources. We further confirms that since 1990, this product has not been tested on animals in order to meet the requirements of the Cosmetic Regulation and we will not carry out animal tests in the future to meet the requirements of the Cosmetic Regulation.

Fruit liquid Apple EC, Art. Code NA22420

This information is given in good faith with our actual knowledge. This correspondence will not be automatically updated in the future.