



Certificate of Analysis

Batch Details

Product Name: APPLELIQUIDFRUITEXTRACT
Batch No: 4532304
Best Before End: February 2026

Quality Control Results

| Analytical Test Method No. | Characteristic | Specification Limit | | Value | Unit | Status |
|-------------------------------|-----------------------------|----------------------------------|-------|-------|------|--------|
| | | Lower | Upper | | | |
| | Addendum 00 | PASS OR FAIL | | Pass | | p |
| | REVISION NUMBER | 3.0 | | Pass | | p |
| AC018000 | ASPECT | LIQUID | | Pass | | p |
| AC018000 | ASPECT | CLEAR TO SLIGHTLY OPALESCENT | | Pass | | p |
| AC018000 | ASPECT | SLIGHT SEDIMENTATION POSSIBLE | | Pass | | p |
| AC018000 | COLOUR | PALE YELLOW TO YELLOW | | Pass | | p |
| AC018000 | ODOUR | CHARACTERISTIC | | Pass | | p |
| FC0031AO | SPECIFIC GRAVITY (20 °C) | 0.995 | 1.025 | 1.026 | | p |
| FC0032AO | REFRACTIVE INDEX (20 °C) | 1.320 | 1.350 | 1.339 | | p |
| FC0064AO | pH VALUE (20 °C) | 4.0 | 6.5 | 4.9 | | 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

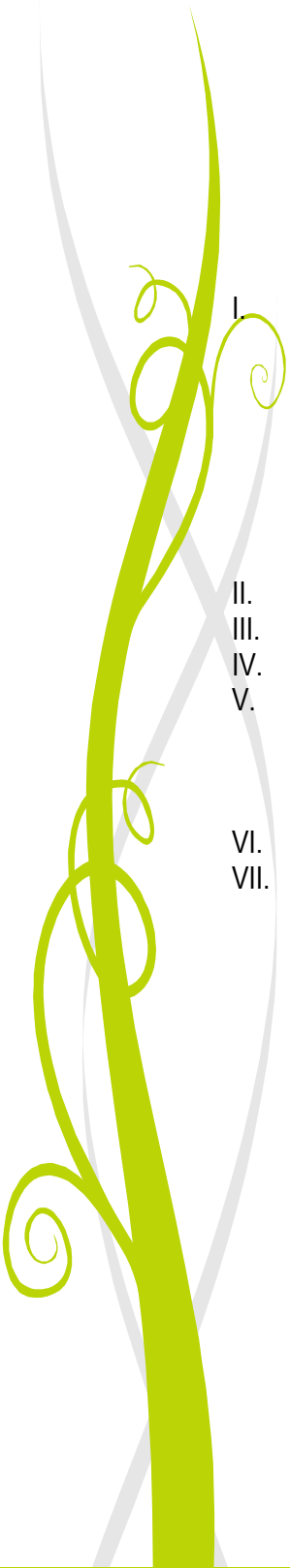
Product Information File – cosmetic ingredient

Product Name: Fruitliquid Apple

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

to follow Cosing, the European Commission database on <http://ec.europa.eu/consumers/cosmetics/cosing/>

EU INCI Name:



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Certifications

Our Supplier is certified ISO 14001, ISO 9001, ISO 45001, EFfCI Guide for Good Manufacturing Practices (2012) and AEO.

Fruitliquid Apple EC, Art. N°NA22420 is COSMOS certified by ECOCERT.

Fruitliquid Apple EC, Art. N°NA22420 is Halal certified by HCS (Halal Certifying Services).

Non-warranty

The information in this publication is believed to be accurate and is given in good faith, but no representation or warranty as to its completeness or accuracy is made. Suggestions for uses or applications are only opinions. Users are responsible for determining the suitability of these products for their own particular purpose. No representation or warranty, expressed or implied, is made with respect to information or products including, without limitation, warranties of merchantability, fitness for a particular purpose, non-infringement of any third-party patent or other intellectual property rights including, without limit, copyright, trademark and designs.

I. PRODUCT INFORMATION

Composition

| <u>Ingredient PCPC INCI Name</u> | <u>CAS</u> | <u>EINECS</u> | <u>Function</u> | <u>Origin*</u> | <u>Free of GMO (yes/no)</u> | <u>Concentration (%)</u> <i>based on theoretical composition</i> |
|--------------------------------------|------------|---------------|----------------------|----------------|---------------------------------|---|
| Water | 7732-18-5 | 231-791-2 | Solvent | N/A | N/A | 58 – 61 % |
| Pyrus Malus (Apple) Fruit Extract | 85251-63-4 | 286-475-7 | Botanical extract | V (organic) | Yes | 38 – 42 %** |
| Potassium Sorbate | 24634-61-5 | 246-376-1 | Preservative | S | N/A | Approx. 0.4 % |
| Sodium Benzoate | 532-32-1 | 208-534-8 | Preservative | S | N/A | Approx. 0.1 % |

*V: vegetable; S: synthetic, B: biotechnological; N: natural

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

The value of the water content in the final selling specification (SAP specification) per batch will be slightly higher due to the water entry by the plant material. The definition of "water content" in selling spec is the total water composed of process and plant water. The "water content" in the PIF is the process water only.

Microbiological data

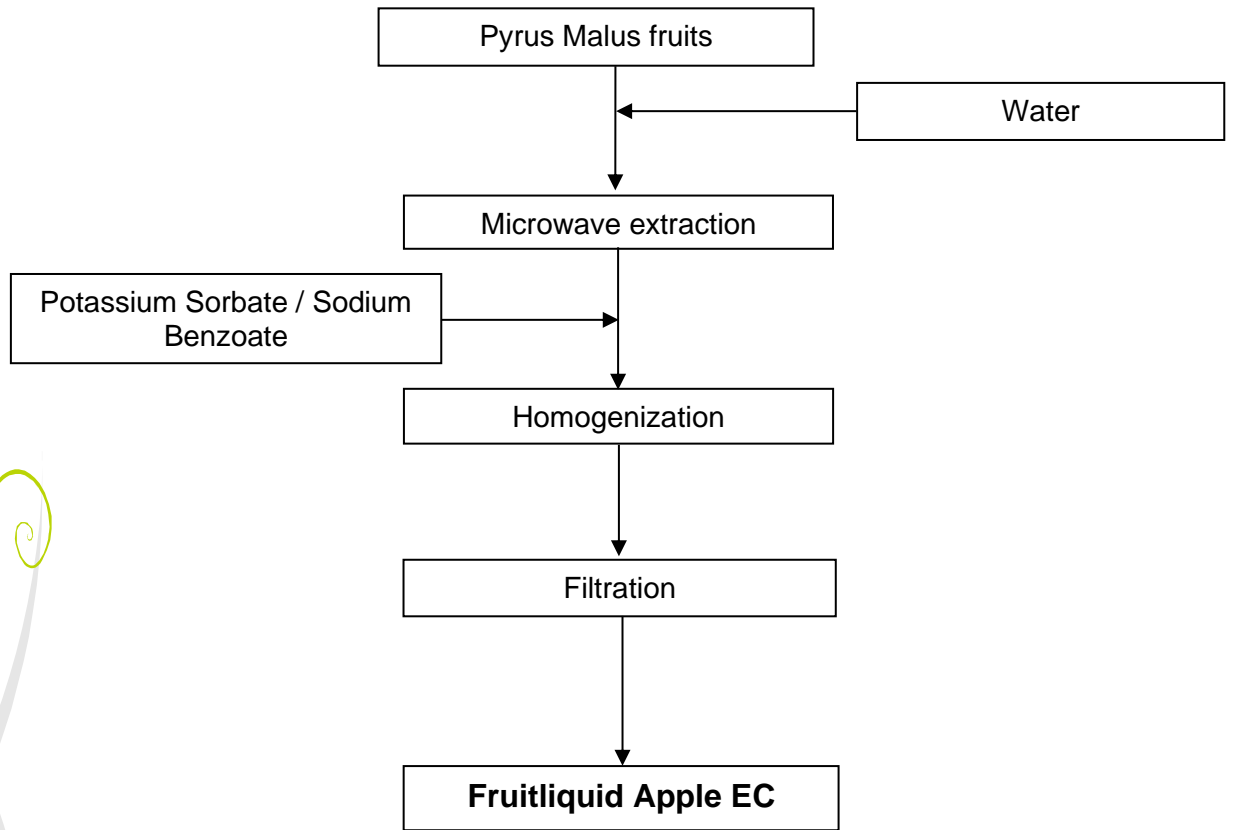
| | |
|--|---------------|
| <u>Bacteria</u> | < 100 cfu / g |
| <u>Moulds and yeasts</u> | < 10 cfu / g |
| <u>Pathogenic Micro-organisms</u> | Not tested |

Uses

Cosmetic application:

Every day-nourishing-care
After-sun care
After-shave products
Dry hair and scalp
Mild facial cleansers
Shower gels

Manufacturing Process -Flow chart



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

Impurities and traces below mentioned are considered technically unavoidable within the meaning of the European Cosmetic Regulation EC 1223/2009 according to information from our suppliers.

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. Conclusion by analogy

Residual solvents: Not expected

Other impurities:

*These substances are not used as raw material and are not intentionally added to the product. Based on the manufacturing process, the above-mentioned substances are not expected to be present. However, these substances are not a part of our routine analytical procedures and quality control system; therefore, they are not measured on a regular basis.

| | |
|---|--|
| - Ethylene/Diethylene Glycol: | Not added – not expected – not tested* |
| - Methanol: | Not added – not expected – not tested* |
| - Formaldehyde: | Not added – not expected – not tested* |
| - Nitrosamines: | Not added – not expected – not tested* |
| - Nonylphenol, alkylphenol, phenol, nonoxynol components: | Not added – not expected – not tested* |
| - Dioxanes: | Not added – not expected – not tested* |
| - Phthalates: | Not added – not expected – not tested* |

Substance

| | |
|--------------------------------------|------------|
| Dibutyl phthalate (DBP) | 84-74-2 |
| Diethylhexyl phthalate (DEHP) | 117-81-7 |
| Benzyl butyl phthalate (BBP) | 85-68-7 |
| Di-n-pentyl phthalate (DnPP) | 131-18-0 |
| bis(2-Methoxyethyl) phthalate (DMEP) | 117-82-8 |
| Diisopentylphthalate (DiPP) | 605-50-5 |
| n-pentyl isopentyl phthalate (DPP) | 84777-06-0 |
| Diisobutyl phthalate (DiBP) | 84-69-5 |

| | |
|------------------|--|
| - Glycol ethers: | Not added – not expected – not tested* |
|------------------|--|

Substance

| | |
|---|----------|
| 2-methoxyethanol / ethylene glycol monomethyl ether (EGME) | 109-86-4 |
| 2-methoxyethyl acetate / methylglycol acetate (EGMEA) | 110-49-6 |
| 2-ethoxyethanol (EGEE) | 110-80-5 |
| 2-ethoxyethyl acetate (EGEEA) | 111-15-9 |
| 1,2-dimethoxyethane / ethylene glycol dimethyl ether (EGDME) | 110-71-4 |
| Oxybis(2-methoxyethyl) / dimethoxydiglycol (DEGDME) | 111-96-6 |
| 1,2-bis(2-methoxyethoxy)ethane / triethylene glycol dimethyl ether (TEGDME) | 112-49-2 |
| 2-butoxyethanol (EGBE) | 111-76-2 |
| 2-(2-butoxyethoxy)ethanol (DEGBE) | 112-34-5 |
| 2-(2-ethoxyethoxy)ethanol (DEGEE) | 111-90-0 |

Hazardous & CMR Substances:

19-20 Sandeath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

Tel: 01425 655555 Email: technical@madarcorporation.co.uk

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.

Fruitliquid Apple 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.

VOC:

Fruitliquid Apple does not contain one or more Volatile Organic Compounds (VOC) in compliance with the Swiss ordinance and the definition of California.

Proposition 65:

The ingredients constituting Fruitliquid Apple are not known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act of which we regularly follow the updates.

Palm Oil:

We herewith confirm that palm oil and palm kernel oil are not used as raw materials and are not intentionally added in Fruitliquid Apple, and that it is not produced from palm oil or palm kernel oil derived ingredients, with reference to the confirmation of our raw materials suppliers.

Petrochemicals derivatives:

We herewith confirm that Fruitliquid Apple is not derived from petrochemicals raw materials.

However, according to our raw materials suppliers Potassium Sorbate (approx. 0.4 %) is used as raw material and is derived from petrochemicals.

Irradiation:

We herewith confirm that Fruitliquid Apple has not been irradiated radioactively.

Allergens – EU Cosmetic Regulation:

We herewith confirm that Fruitliquid Apple, meets the following properties:

| CAS-No. | Allergen | Content expected |
|------------|--------------------------|------------------|
| 122-40-7 | Amyl cinnamic aldehyde | not expected |
| 101-85-9 | Amyl cinnamic alcohol | not expected |
| 105-13-5 | Anisyl alcohol | not expected |
| 100-51-6 | Benzyl alcohol | not expected |
| 120-51-4 | Benzyl benzoate | not expected |
| 103-41-3 | Benzyl cinnamate | not expected |
| 118-58-1 | Benzyl salicylate | not expected |
| 104-55-2 | Cinnamic aldehyde | not expected |
| 104-54-1 | Cinnamic alcohol | not expected |
| 5392-40-5 | Citral | not expected |
| 106-22-9 | Citronellol | not expected |
| 91-64-5 | Coumarin | not expected |
| 97-53-0 | Eugenol | not expected |
| 4602-84-0 | Farnesol | not expected |
| 106-24-1 | Geraniol | not expected |
| 101-86-0 | Hexyl cinnamaldehyde | not expected |
| 107-75-5 | Hydroxycitronellal | not expected |
| 97-54-1 | Isoeugenol | not expected |
| 80-54-6 | Lilial | not expected* |
| 5989-27-5 | d-Limonene | not expected |
| 78-70-6 | Linalool | not expected |
| 31906-04-4 | Lyral | not expected* |
| 111-12-6 | Methyl heptine carbonate | not expected |
| 127-51-5 | Methyl ionone alpha iso | not expected |
| 90028-68-5 | Oakmoss | not expected |
| 90028-67-4 | Tree Moss | not expected |

* They are synthetic substances that do not occur in botanicals.

None of the 26 identified allergen perfume compounds 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.

This information is based on risk estimation which is based on botanical and phytomedicinal reference literature and conclusions by analogy.

Allergens – Food:

We herewith confirm that Fruitliquid Apple meets the following properties:

| Allergens | Presence expected | Used in production site |
|--|--------------------------|--------------------------------|
| Cereals containing gluten (i.e. wheat, rye, barley, oats, spelt, kamut or their hybrids) and products thereof | No | Yes |
| Crustaceans and products thereof | No | No |
| Eggs and products thereof | No | Yes |
| Fish and products thereof | No | Yes |
| Peanuts and products thereof | No | Yes |
| Soybeans and products thereof | No | Yes |
| Milk and products thereof (including lactose) | No | Yes |
| Nuts (i.e. almond, hazelnut, walnut, cashew, pecan, Brazil nut, pistachio nut, macadamia nut, Queensland nut) and products thereof | No | Yes |
| Celery and products thereof | No | No |
| Mustard and products thereof | No | No |
| Sesame seeds and products thereof | No | Yes |
| Lupin and products thereof | No | Yes |
| Molluscs and products thereof | No | Yes |
| Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg expressed or 10 mg/litre as SO ₂ | No | Yes |

*Most common food allergens according to EU Directive 2007/68/EC modifying Annex III bis of directive 2000/13/EC

None of the food allergens above listed is used as raw materials in the above mentioned product. With reference to the confirmation of our raw materials suppliers, no other ingredient used in the composition of this product derives from any of the a.m. allergens.

Cross-contamination cannot be excluded considering that some of the raw materials used in our production site may derive from food allergens or contain them as impurities, but the risk is expected to be very low as adequate quality measures are implemented to limit the occurrence of contamination.

However, these allergens are not a part of our routine analytical procedures and quality control system (except the manufacturing protocol when used as ingredients). Therefore, their presence or absence are not measured on a regular basis.

We herewith confirm below the contents according to the ISO 16128-1 and ISO 16128-2 standards (including formulation water) of Fruitliquid Apple is:

| Natural content (%) | Derived natural content (%)* | Organic content (%) | Derived organic content (%) |
|---------------------|------------------------------|---------------------|-----------------------------|
| 99,5 | 99,5 | 39,8 | 39,8 |

*: based on an index of natural origin = 1 for the ingredient Glycerin (Carbon 14 method).

However, this information is calculated according to our interpretation of the standard ISO 16128, theoretical composition and information communicated by our suppliers.

It is likely to evolve along the way of discussions with professional federations of cosmetic industry.

II. REGULATORY INFORMATION

REACH:

Our Supplier 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.

Fruitliquid Apple is so called preparation composed of ingredients (named under REACH as substances).

| INCI | CAS | EINECS | REACH status | Comment |
|-----------------------------------|------------|-----------|--------------|-------------------|
| Water | 7732-18-5 | 231-791-2 | / | / |
| 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 would exceed the 1T/year limit, we will ensure its registration.

We do not anticipate any disruptions of this product supplied to our customers. However changes to the product portfolio may become necessary also for reasons not connected with REACH.

EU Cosmetic Regulation:

We herewith confirm that, Fruitliquid Apple complies with the European Cosmetic Regulation EC 1223/2009.

- substances listed in Annexes II, III, IV and VI of the European Cosmetic Regulation 1223/2009 EC are not used as raw material and are not intentionally added.

Botanical preparations which contain technically unavoidable traces or impurities of plant constituents listed in Annexes II or III are not affected by the exclusion or restriction of the European Regulation 1223/2009.

- Preservatives used are listed in Annex V of the European Cosmetic Regulation 1223/2009 EC:
Potassium Sorbate: approx. 0.4 %
Sodium Benzoate: approx. 0.1 %

Furthermore, according to Annex V of the European Cosmetic Regulation No 1223/2009, the following preservatives are subject to restriction:

- Potassium Sorbate: Its maximum concentration in ready-to-use preparations is 0,6%.
- Sodium Benzoate: Its maximum concentration in ready-to-use preparations is 2,5 % (acid form) for rinse-off products; 1,7 % (acid form) for oral-care products; 0,5 % (acid form) for non-rinsed products.

Nanomaterial:

Fruitliquid Apple is not a nanomaterial and does not contain any nanomaterial, according to the Cosmetic Regulation (EC) No 1223/2009 and French Decree n° 2012-232 from 17th of February 2012.

Microplastics:

Fruitliquid Apple is not expected to contain microplastics with reference to the confirmation of our raw materials suppliers.

BSE/TSE:

Fruitliquid Apple is originated from synthetic and plant raw material with reference to the confirmation of our raw materials suppliers.

None of the ingredients used to produce this product are of bovine, ovine, equine or porcine origin. Therefore, Bovine Spongiform Encephalopathy (BSE) / Transmitting Spongiform Encephalopathy (TSE) risk, as defined in the European Commission Decision 97/534/EC and EMEA/410/10, does not concern this product.

CITES:

Fruitliquid Apple does not contain endangered species (source CITES list) and is not subject to the Convention of Washington to our knowledge to date.

The plants raw materials used are not parts of Annexes I, II and III of the Convention of Washington.

Information about the packaging:

According to information provided by our suppliers, we can confirm that packaging used for Fruitliquid Apple is conform with the following requirements:

- The packaging is made from HDPE (High Density PolyEthylene)
- is compliant with European REACH regulation CE 1907/2006
- is compliant with European Directive 94/62/CE on packaging and packaging waste
- is compliant to European regulation CE 10/2011 and conform for food use
- is free from animal products and derivatives, free of silicones, free of bisphenol A and phthalates and not concerned by nanotechnologies

III. INFORMATION ON ANIMAL TESTING

Our supplier confirms that since 1990, their products have not been tested on animals in order to meet the requirements of the Cosmetic Regulation and they 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 their products may have been tested on animals in the past, but these tests were not carried out either by or on the request.

They therefore confirm the compliance of their products with the Cosmetic Regulation 1223/2009 concerning the ban on testing in animals in order to meet the requirements of the Cosmetic Regulation.

IV. ACTIVES and EFFECTS

Main actives in the plant:

- ⇒ Carbohydrates
- ⇒ Fruit acids (Malic Acid)
- ⇒ Provitamin A, Vitamin B types C, H
- ⇒ Phenolics

Main actives in the extract:

Not determined

V. TOXICOLOGICAL DATA

Toxicity tests on the product

We herewith confirm that no NOAEL measure has been made on this product.

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

Toxicological profile of the ingredients

The CIR (2016)⁽¹⁾ Expert panel concluded that Pyrus malus (Apple) Fruit extract is safe in cosmetics, when formulated to be non-irritant and no sensitizing.

In a safety assessment of Sorbic Acid and Potassium Sorbate (Elder, 1988), the CIR Expert Panel stated that these ingredients are safe as cosmetic ingredients.⁽²⁾

CIR (2001)⁽³⁾ published a final report on the safety assessment of benzyl alcohol, benzoic acid, and sodium benzoate with the conclusion that benzyl alcohol, benzoic acid, and sodium benzoate are safe for use in cosmetic formulations at concentrations up to 5%.

⇒ Human skin irritation:

Pyrus Malus (Apple) Fruit Extract:

Slight skin irritation potential (rabbits, topical application, aqueous solution containing 20% extract)

Not induces skin irritation (human, patch test for 24h, product containing 7.7835% extract)⁽¹⁾

Potassium Sorbate: Not irritating (rabbits, semi-occlusive patch) (OECD 404)⁽⁴⁾

Sodium Benzoate: Not irritating when applied to the intact skin (rabbits, application of 500 mg Sodium Benzoate onto clipped skin for 4 hours using a semi-occlusive dressing, OECD 404).⁽⁵⁾⁽⁶⁾

⇒ Mucous membrane irritation:

Pyrus Malus (Apple) Fruit Extract:

Slightly irritating to the eye and did not cause lesions of the ocular mucosa that were considered significant (rabbits, topical application, aqueous solution containing 20% extract) (OECD 405)⁽¹⁾

Potassium Sorbate: Not irritating to eyes (rabbits) (OECD 405)⁽⁴⁾

Sodium Benzoate: Mildly irritating to the eye, sufficient to warrant classification as Category 2 (Reversible eye effects) (rabbits, instilling 60 mg Sodium Benzoate into the eye, OECD 405)⁽⁵⁾⁽⁶⁾

⇒ Sensitisation potential:

Pyrus Malus (Apple) Fruit Extract:

Slight skin sensitization potential, but did not induce skin irritation (guinea pigs, topical application, aqueous solution containing 20% extract) (OECD 406)⁽¹⁾

- Not causes allergic contact dermatitis (human, patch test for 24h, product containing 7.7835% extract) ⁽¹⁾
- Potassium Sorbate: Not sensitizer (guinea pigs) ⁽⁴⁾
- Sodium Benzoate: Not has to be classified and has no obligatory labelling requirement for sensitization by skin contact (mice, 5%, 10 and 20% of Sodium Benzoate). ⁽⁵⁾
- ⇒ Cytotoxicity: No data available
- ⇒ Phototoxicity: No data available
- ⇒ Genotoxicity:
- Apple Fruit Extract: Slight mutagenicity was observed at a dose of 2500 µg/plate without metabolic activation, but not at the other doses (up to 5000 µg/plate) (Ames test on *S. typhimurium*)
No genotoxic activity in Chinese hamster mammalian cells (chromosomal aberrations assay)
Not genotoxic (Micronuclei test) (rats, oral, 500, 1000, 2000 mg/kg bw) ⁽¹⁾
- Potassium Sorbate: Not mutagenic (Ames test on *S. typhimurium*) ⁽⁴⁾
- Sodium Benzoate: Not mutagenic in the *S. typhimurium* and *E. coli* reverse mutation assays (EOCD 471). ^{(5) (6)}
- ⇒ Carcinogenicity:
- Potassium Sorbate: Not carcinogenic (NOAEL = 1400 mg/kg bw/d), according to regulation (EC) No 1272/2008 ⁽⁴⁾
- Sodium Benzoate: Not carcinogenic to rats and mice at doses of 1000 mg/kg bw and above for 2 years (NOAEL = 1000 mg/kg bw/d). ⁽⁵⁾
No effect on the survival or tumour distribution of the treated mice (mice, average daily intake of 5950-6200 mg/kg bw/d) ⁽⁶⁾
- ⇒ Acute toxicity:
- Apple polyphenol extract:
LD₅₀ (rats, oral) > 2000 mg/kg ⁽¹⁾
- Potassium Sorbate: LD₅₀ (rats, oral) = 10500 mg/kg bw
LD₅₀ (rats, dermal) > 2000 mg/kg bw ⁽⁴⁾
- Sodium Benzoate: LD₅₀ (rats, oral) = 3140 mg/kg bw
LD₅₀ (rabbits, dermal) > 2000 mg/kg bw ⁽⁵⁾
- ⇒ Inhalation toxicity: No data available
- ⇒ Chronic toxicity:
- Apple polyphenol extract:
NOAEL (rats, oral, 90 days) = 2000 mg/kg bw/d (upper-limit dose), No effect on body weight, food consumption, haematological or biochemical parameters ⁽¹⁾
- Potassium Sorbate: NOAEL (male rats, oral, 28 days) = 9200 mg/kg bw/d
NOAEL (female rats, oral, 28 days) = 8600 mg/kg bw/d
NOAELs are based on no overt clinical signs of toxicity, no mortalities, no-treatment related effects on food consumption and no changes in neurotoxicological measurements were observed during the study. ⁽⁴⁾

Sodium Benzoate: NOAEL (rats, oral, 2 years) > 1000 mg/kg bw/d because no adverse clinical signs were observed in treated animals
NOAEL (rats, dermal, 21 days) > 2500 mg/kg bw/d based on no changes in general behaviour and appearance, body weight, clinical laboratory tests, organ weight or survival. ⁽⁵⁾

⇒ Reproduction toxicity:

Potassium Sorbate: NOAEL (rats, oral, parent animals) = 3000 mg/kg bw/d
NOAEL (rats, oral, F1- & F2-generation) = 1000 mg/kg bw/d
These NOAELs are based on a 2-generation study, with different concentrations: 0, 300, 1000, 3000 mg/kg bw/d; according to OECD 416. ⁽⁴⁾

Sodium Benzoate: NOAEL (rats, oral, 4-generation reproductive toxicity study) = 500 mg/kg bw/d
500 mg/kg bw is the NOAEL of acid benzoic, according to SCCP, based on no side-effects on the offspring (read-across Acid Benzoic / Sodium Benzoate). ⁽⁶⁾

Ecological data

Our product contains mainly Water vehicle:

- ⇒ The ecological information about Water is Not applicable
- ⇒ Water hazard class: 1 (self-classification)

VI. CONCLUSION AND RECOMMENDATIONS

According to available information from test results or bibliography, we recommend to use the product at a maximum level of: 5 % in leave on / rinse off products.

Contraindications: None known

Remarks: None

VII. REFERENCES

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.

1. **CIR.** Safety Assessment of Apple-derived Ingredients as Used in Cosmetics. 2016.
2. **CIR.** Annual Review of Cosmetic Ingredient Safety Assessments: 2007-2010. *International Journal of Toxicology*. 2011, Vol. 30, Supplement 2, pp. 73S-127S.
3. **CIR.** Safety Assessment of Benzyl Alcohol, Benzoic Acid and its Salts, and Benzyl Benzoate. *International Journal of Toxicology*. 2017, Vol. 36, Supplement 3, pp. 5S-30S.
4. **ECHA.** Potassium sorbate. <https://echa.europa.eu/fr/registration-dossier/-/registered-dossier/11008>. [Information verified on 05/07/2021] . 2021.

SAFETY DATA SHEET
according to Regulation (EC) No.
1907/2006

FRUITLIQUID APPLE

Version
1.0

Revision Date:
27.09.2021

Date of last issue: Print Date :
- 31.07.2023
Date of first issue:
27.09.2021

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Remarks : No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty
of water.
If symptoms persist, call a physician.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty
of water and seek medical advice.

If swallowed : If large quantities of this material are swallowed, call a physi-
cian immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : None known.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-
cumstances and the surrounding environment.
Use water spray, alcohol-resistant foam, dry chemical or car-

SAFETY DATA SHEET
according to Regulation (EC) No.
1907/2006

FRUITLIQUID APPLE

| | | | |
|---------|----------------|----------------------|--------------|
| Version | Revision Date: | Date of last issue: | Print Date : |
| 1.0 | 27.09.2021 | - | 31.07.2023 |
| | | Date of first issue: | |
| | | 27.09.2021 | |

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : No special restrictions on storage with other products.

Recommended storage temperature : 15 - 25 °C

Further information on storage stability : Recommended storage temperature

Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : Manufacture of chemical products

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses with side-shields

Hand protection
Remarks : For prolonged or repeated contact use protective gloves.

Skin and body protection : Impervious clothing

Respiratory protection : No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : clear, liquid, opalescent

Colour : yellow

Odour : characteristic

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| | | |
|--|---|---|
| Odour Threshold | : | No data available |
| pH | : | 4.0 - 6.0 (20 °C) |
| Melting point | : | No data available |
| Boiling point | : | No data available |
| Decomposition temperature | : | No data available |
| Flash point | : | No data available |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Density | : | 0.995 - 1.025 g/cm ³ (20 °C) |
| Solubility(ies) | : | |
| Water solubility | : | soluble |
| Solubility in other solvents | : | not determined |
| Partition coefficient: n-octanol/water | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | |
| Viscosity, dynamic | : | No data available |
| Viscosity, kinematic | : | No data available |
| Explosive properties | : | Classification Code: No data available |
| Oxidizing properties | : | No data available |

9.2 Other information

Self-ignition : No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

No data available

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

No data available

In case of fire hazardous decomposition products may be produced such as:

Carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : No data available:

Acute inhalation toxicity : No data available:

Acute dermal toxicity : No data available:

Skin corrosion/irritation

Product:

Remarks : No data available

Serious eye damage/eye irritation

Product:

Remarks : No data available

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Respiratory or skin sensitisation

Product:

Remarks : No data available

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Carcinogenicity

Product:

Carcinogenicity - Assessment : No data available

STOT - single exposure

Product:

Assessment : No data available

STOT - repeated exposure

Product:

Assessment : No data available

Aspiration toxicity

Product:

No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

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14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The components of this product are reported in the following inventories:

| | | |
|--------|---|---|
| CH INV | : | On the inventory, or in compliance with the inventory |
| AICS | : | On the inventory, or in compliance with the inventory |
| PICCS | : | On the inventory, or in compliance with the inventory |
| IECSC | : | On the inventory, or in compliance with the inventory |

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances

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es; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN



Selling Specification

Manufacturing site is certified according to ISO9001, EFfCI, ISO14001 and ISO45001 standards.

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Product Name: FRUITLIQUID APPLE !
Specification: 21/06/2023

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 Limits | | Units |
|------------------------|-------------------------|-------------------------------|-------|-------|
| | | Lower | Upper | |
| AC018000 | REVISION NUMBER | 3.0 | | |
| AC018000 | APPEARANCE FORM | LIQUID | | |
| AC018000 | APPEARANCE CLARITY | CLEAR TO SLIGHTLY OPALESCENT | | |
| AC018000 | APPEARANCE CLARITY | SLIGHT SEDIMENTATION POSSIBLE | | |
| AC018000 | APPEARANCE COLOUR | PALE YELLOW TO ORANGE BROWN | | |
| AC018000 | ODOUR | CHARACTERISTIC | | |
| AC90920 | COSMOS CERTIFICATION | CERTIFIED | | |
| FC0031A0 | SPECIFIC GRAVITY (20°C) | 0.995 | 1.025 | |
| FC0032A0 | REFRACTIVE INDEX (20°C) | 1.320 | 1.350 | |
| FC0064A0 | pH VALUE (20°C) | 4.0 | 6.0 | |
| 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 during period of validity.

Raw material certified as organic by Ecocert Greenlife according to COSMOS standard available at <http://COSMOS.ecocert.com>.

We hereby certify that the plants used for this production are originated from certified organic culture according to last version of EEC Council Regulation for organic agriculture.

Future deliveries will be tested to this specification and the results reported on Certificate of Analysis



Date : 8-12-2022

To whom it may concern :

STATEMENT

We hereby confirm that the below mentioned product is derived from non-animal sources. We further confirm 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.

Apple Liquid Fruit Extract

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