



## Certificate of Analysis

Product Name: RASPBERRY LIQUID FRUIT EXTRACT  
Batch No: 4402814  
Best Before End: JULY 2022

### Quality Control Results

Analytical Test Method No.	Characteristic	Specification Limit		Value	Unit	Status
		Lower	Upper			
AC018000	Addendum 00	1.0		Pass		P
	REVISION NUMBER	CLEAR LIQUID		Pass		P
	ASPECT	PALE PINK TO INTENSE		Pass		P
	COLOUR	PINK		Pass		P
AC018000	ODOUR			Pass		P
FC0031A0	SPECIFIC GRAVITY (20°C)	1.015	1.045	1.033		P
JC0032A0	REFRACTIVE INDEX (20°C)	1.355	1.385	1.370		P
FC0064A0	pH VALUE (20°C)	3.0	5.0	3.9		P
JC0054A0	TOTAL GERMS	100 MAX CFU/ML		Pass		P
JC0054A0	MOULDS/YEASTS	10 MAX CFU/ML	6.5	Pass		P

Long term storage between 15 - 25° C, dark in closed containers

The performed analysis are guaranteed on original packaging

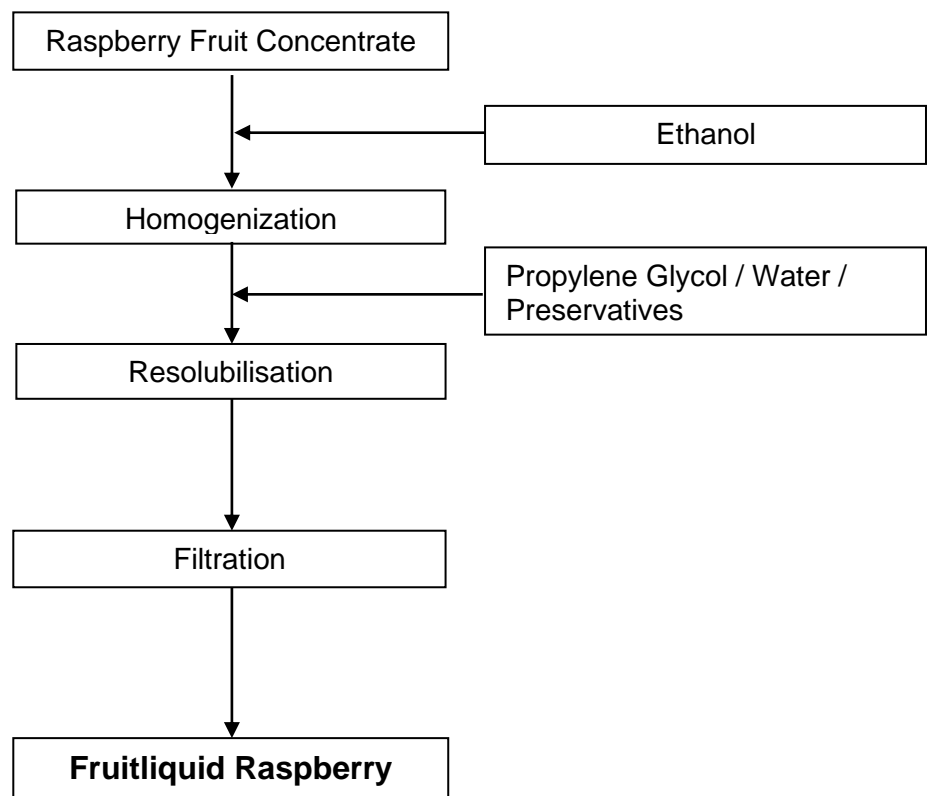
When stored accordingly, stable for 24 months

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 Raspberry Liquid Fruit Extract



17/03/20



## Composition Information

### Raspberry Liquid Fruit Extract

**INCI Name :** Water, Propylene Glycol, Rubus Idaeus (Raspberry) Fruit Extract

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

**Composition :**

Water	66 – 70%
Propylene Glycol	28 – 31%
Rubus Idaeus (Raspberry) Fruit Extract*	1 – 3%

\* Rubus Idaeus (Raspberry) Fruit Extract is expressed as **fresh** fruit

<b>Preservatives :</b>	Ethylparaben	approx. 0.05%
	Methylparaben	approx. 0.15%
	Propylparaben	approx. 0.05%

**Antioxidant :** None

**Co-additive :** Citric Acid approx. 0.08%

03/16

***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, express or implied, is made with respect to information or products including without limitation warranties of merchantability or fitness for a particular purpose or non-infringement of any third party patent or other intellectual property rights including without limit copyright, trademark and designs. Any trademarks identified herein are trademarks of the MADAR group of companies.

## **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).

### **Raspberry Liquid Fruit Extract**

INCI	CAS	EINECS	REACH status	Comment
Water	7732-18-5	231-791-2	/	/
Propylene Glycol	57-55-6	200-338-0	Registered	01-2119456809-23
Rubus Idaeus (Raspberry) Fruit Extract	84929-76-0	284-554-0	Exempt	Production < 1 T / year
Ethylparaben	120-47-8	204-399-4	Registered	01-2119967787-13
Methylparaben	99-76-3	202-785-7	Registered	01-2119463264-40
Propylparaben	94-13-3	202-307-7	Registered	01-2119969462-29
Citric Acid	5949-29-1	611-842-9	Registered	01-2119457026-42

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.

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

**RASPBERRY LIQUID FRUIT EXTRACT**

Version	Revision Date:	Date of last issue: -	Print Date :
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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Trade name : RASPBERRY LIQUID FRUIT EXTRACT

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

Use of the Sub- : Manufacture of soap and detergents, cleaning and polishing  
stance/Mixture mixtures  
Cosmetic additive

**1.3 Details of the supplier of the safety data sheet**

Company : MADAR Corporation Limited  
19-20 Sandleheath Industrial Estate  
Fordingbridge  
Hampshire  
SP6 1PA  
UK

Telephone : +44 (0)1425 655555

E-mail address : sales@madarcorporation.co.uk

**1.4 Emergency telephone number**

USA: 24 Hour Emergency Response Information CHEMTREC toll free: 1-800-424-9300; direct/international: 1-703-527-3887. CANADA: CANUTEC 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666. EUROPE: 00 32 3575 5555. ASIA PACIFIC - excl. China: +65 6542-9595. CHINA: +86 816-635 2206. AUSTRALIA: +61 2 7808 3390. SOUTH AFRICA: +32 3 575 55 55. BRASIL: Suatrans 0800 707 7022 / 0800 707 1767. LATAM: Suatrans (+55) 11 98149-0850 / (+55) 19 3833-5300. INDIA: +91 22 30948601/2. JAPAN: +65 6542 9595 (24 時間 日本語対応無料通話, シンガポール). TÜRKIYE: Sağlık Bakanlığı Ulusal Zehir Merkezi - 114

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.2 Label elements**

**Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.



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**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.  
None.

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Chemical nature : Cosmetics

**Hazardous components**

Remarks : No hazardous ingredients

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

General advice	: When symptoms persist or in all cases of doubt seek medical advice.
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 physician 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.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

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



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Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : In case of fire hazardous decomposition products may be produced such as:  
Carbon oxides

Do not use a solid water stream as it may scatter and spread fire.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.

**6.2 Environmental precautions**

Environmental precautions : Prevent product from entering drains.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up with inert absorbent material.  
Sweep up and shovel into suitable containers for disposal.

**6.4 Reference to other sections**

None.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.

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 : Store in original container. Keep container tightly closed in a



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areas and containers      dry and well-ventilated place.

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

Recommended storage temperature      : 15 - 25 °C

Other data      : 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**

**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propylene glycol	57-55-6	TWA (particles)	10 mg/m <sup>3</sup>	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
		TWA (Total vapour and particles)	150 ppm 474 mg/m <sup>3</sup>	GB EH40
Further information	Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			

**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.

Protective measures      : Wear suitable protective equipment.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance      : clear, liquid





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Colour	: No data available
Odour	: No data available
Odour Threshold	: No data available
pH	: 3.0 - 5.0, (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	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: 1.015 - 1.045 g/cm <sup>3</sup> (20 °C)

Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: not determined

Partition coefficient: n-octanol/water	: No data available
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Auto-ignition temperature	: No data available
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Decomposition temperature	: No data available
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Viscosity	
Viscosity, dynamic	: No data available

Viscosity, kinematic	: No data available
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Explosive properties	: Classification Code: No data available
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Oxidizing properties	: No data available
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**9.2 Other information**

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

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**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

**Reproductive toxicity**

**Product:**

Effects on fertility :  
Test substance: 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

**Further information**

**Product:**

Remarks: Health injuries are not known or expected under normal use.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Product:**



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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

**12.4 Mobility in soil**

**Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : 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..

**12.6 Other adverse effects**

**Product:**

Additional ecological information : No data available

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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product : Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.

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**SECTION 14: Transport information**

**14.1 UN number**

Not regulated as a dangerous good



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**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**SECTION 15: Regulatory information**

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

Water contaminating class : WGK 1 slightly water endangering  
(Germany)

**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

IECSC : On the inventory, or in compliance with the inventory

**15.2 Chemical Safety Assessment**

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**SECTION 16: Other information**

**Full text of other abbreviations**

(Q)SAR - (Quantitative) Structure Activity Relationship; 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; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; 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; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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

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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; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; 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; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

**Further information**

Other information : For the hazard identification of each mixture refer to attached material safety data sheets.

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

**Date:** 18.03.2020

## Specification

**Product Name:** RASPBERRY LIQUID FRUIT EXTRACT  
**Specification:** 26/09/2019

Analy. Test Method No.	Characteristic	Specification Limits		Units
		Lower	Upper	
—	REVISION NUMBER	1.0		
AC018000	APPEARANCE FORM	LIQUID		
AC018000	APPEARANCE CLARITY	CLEAR		
AC018000	APPEARANCE COLOUR	PALE PINK TO INTENSE PINK		
AC018000	ODOUR	CHARACTERISTIC		
FC0031A0	SPECIFIC GRAVITY (20°C)	1.015	1.045	
FC0032A0	REFRACTIVE INDEX (20°C)	1.355	1.385	
FC0064A0	pH VALUE (20°C)	3.0	5.0	
JC0054B0	MOULDS/YEASTS	10 MAX CFU/G		
JC0054B0	TOTAL GERMS	100 MAX CFU/G		

between 15-25°C, dark in closed containers

the performed analysis are guaranteed on original packaging when stored accordingly, stable for 18 months

## Toxicological dossier

### Product Name: Raspberry Liquid Fruit Extract

**INCI Name :** Water, Propylene Glycol, Rubus Idaeus (Raspberry) 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
Propylene Glycol	B
Rubus Idaeus (Raspberry) Fruit Extract	E*

\* Rubus Idaeus (Raspberry) Fruit Extract is expressed as **fresh** fruit

#### Origin of raw materials :

- Plant origin : Rubus Idaeus
  - plant part : Fruit
  - from organic culture : No
  - free of GMO : Yes
- Synthetic origin : Propylene Glycol and preservatives
- Animal origin : No

**Preservatives :** Ethylparaben (0.05 %)  
Methylparaben (0.15 %)  
Propylparaben (0.05 %)

**Antioxidant :** None

**Co-additive :** Citric Acid (0.08%) as pH buffer

**Manufacturing process :** Ethanolic raspberry fruit concentrate  
resolubilized in propylene  
glycolic/aqueous basis, preservation,  
filtering and filling



**Microbiological Data :**

⇒	Bacteria	< 100 cfu / g
⇒	Moulds and yeasts	< 10 cfu / g
⇒	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, nats, polychloro dibenzo dioxins and dibenzo furans and dimethyl aminopropylamine

⇒	Residual solvents:	
	Ethanol	15ppm max (not tested – conclusion by analogy)

### Total volatile components / Allergens content :

We herewith confirm that **Raspberry Liquid Fruit Extract**, 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	Lylal	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.

\*\* The substances are not expected to be part of the *Rubus idaeus* fruits

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.

#### Raspberry 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

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 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 our supplier.

Our supplier 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.

## Toxicological Data :

We do not see any danger in using Raspberry 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 Raspberry Liquid Fruit Extract, but according to literature, Propylene Glycol and Rubus idaeus don't contain potentially toxic compounds and they are safe when used appropriately.

Raspberries fruits are eaten since hundred of years and no adverse effects are reported. There is no data on the side effects and toxicology of these fruits.

### ⇒ Human skin irritation :

Propylene Glycol : In a 24-h skin irritation test involving nude mice, there were no reactions to 10% PG. <sup>(1)</sup>

Draize test results indicated that PG was, at most, a mild skin irritant when applied for 24 h to abraded and intact skin of rabbits. When PG was applied to the skin of guinea pigs and rabbits (guinea pigs and rabbits lack sweat glands) for 48 h using open and closed patches, no reactions were observed. The results of 48 h and 21 day open and closed patch tests involving Gottingen swine (no sweat glands) indicated no reactions to PG. <sup>(1)</sup>

### ⇒ Mucous membrane irritation :

Propylene Glycol : Propylene glycol did not induce corneal damage in rabbits in the Draize test and was classified as a slight ocular irritant in another ocular irritation study. <sup>(1)</sup>

### ⇒ Sensitisation potential :

Propylene glycol : Results were negative for 100% PG in a mouse external ear swelling sensitization test. The results of a GMPT, OET and chamber (Finn chamber) test indicated no sensitization reactions to 70% PG. <sup>(1)</sup>

⇒ Cytotoxicity : No data available

⇒ Phototoxicity : No data available

- ⇒ **Mutagenicity (e.g. Ames Test) :**
  - Propylene glycol : In the Ames test, PG was not mutagenic in strains TA1535, TA1537, TA1538, TA98 and TA100 of *Salmonella typhimurium* with and without metabolic activation.<sup>(1)</sup>
- ⇒ **Carcinogenicity :**
  - Propylene glycol : Not carcinogenic <sup>(1)</sup>
- ⇒ **Acute toxicity :**
  - Propylene glycol: Propylene glycol is relatively harmless.  
Oral LD<sub>50</sub> = 21 g/kg body wt in rats <sup>(1)</sup>
- ⇒ **Inhalation toxicity :** No data available
- ⇒ **Chronic toxicity :** No data available
- ⇒ **Reproduction toxicity :**
  - Propylene glycol : PG was not teratogenic in female CD-1 mice when administered at a concentration of 10 000ppm on days 8-12 of gestation.<sup>(1)</sup>

### **Ecological Data :**

Our product contains more than 80% of extraction vehicle (Water/Propylene glycol):

- ⇒ The ecological information about Propylene Glycol is :
  - Environmental toxicity :
    - LC<sub>50</sub> (fish – 96 hours ) > 54900 mg/l
    - EC<sub>50</sub> (Daphnia – 48 hours ) > 43500 mg/l
    - EC<sub>50</sub> (Algae – 78 hours ) > 19000 mg/l
  - Biodegradability : Easily biodegradable
- ⇒ Water hazard class: 1 (self-classification)

**Phytopharmaceutical Data :**

- ⇒ External uses : used as additive for lotions, tonics, milks, bath and shower formulations
- ⇒ Contraindications : None known
- ⇒ Side effects : None known
- ⇒ Interactions: None known

**References :**

- (1) CIR Report, CTFA 2006 for toxicological information regarding Propylene Glycol

03/20

This toxicological dossier replaces the earlier one dated 12/04, 02/07, 01/11, 03/16

***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, express or implied, is made with respect to information or products including without limitation warranties of merchantability or fitness for a particular purpose or non-infringement of any third party patent or other intellectual property rights including without limit copyright, trademark and designs.



Date : 18.03.2020

## **STATEMENT**

We hereby confirm that the below mentioned product is derived from non-animal sources. The manufacturer further confirms that since 1990, this product has not been tested on animals in order to meet the requirements of the Cosmetic Regulation neither by nor on the request of the manufacturer and they will not carry out animal tests in the future to meet the requirements of the Cosmetic Regulation.

### **Raspberry Liquid Fruit Extract**

Cross-contamination cannot be excluded considering that some of the raw materials used in the production site are from animals' origins, but the risk is expected to be very low as adequate quality measures are implemented to limit the occurrence of contamination.

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