

## **Certificate of Analysis**

**Batch Details** 

Product Name: STRAWBERRY LIQUID FRUIT EXTRACT

Product Code: FESTRA
Batch No: 4533509

Best Before End: FEBRUARY 2026

Specification:

## **Quality Control Results**

Analytical Test	Specification Limit				
Characteristic	Lower	Upper	Value	Status	
Addendum 00 REVISION NUMBER	PASS OR FAIL 1.0		Pass Pass	Р	
ASPECT	CLEAR LIQUID		Pass	Р	
COLOUR	PALE YELLOW TO DARK ORANGE		Pass	Р	
ODOUR	CHARACTERISTIC		Pass	Р	
SPECIFIC GRAVITY (20°C) REFRACTIVE INDEX (20°C) pH VALUE (20°C) TOTAL GERMS MOULDS/YEASTS	1.085 1.370 4.00 100 MAX CFU/G 10 MAX CFU/G	1.115 1.400 6.0	1.106 1.387 4.9 Pass Pass	P P P P	

## 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



# Product Information File – cosmetic ingredient

	Product Name:	Strawberry Extract PB	
	PCPC INCI Name:		
		Water, Glycerin, Fragaria Vesca (Strawbe	erry) Fruit Extract
	EU INCI Name:	to follow Cosing, the European C http://ec.europa.eu/consumers/cosmetics	
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References

## I.CRODAROM CERTIFICATIONS AND COMMITMENTS

## Certifications

Environmental management systems	ISO 14001:2015
Quality management systems	ISO 9001:2015
Occupational health and safety management systems	ISO 45001:2018
Good Manufacturing Practices	EFfCI (2012)
Authorised Economic Operator (AEO)	Yes
Halal certified by HCS (Halal Certifying Services)	Yes
COSMOS	Certified and Approved products (See certificates)

## Commitments



Within the framework of its Corporate Social Responsibility (CSR), Our supplier implements corporate governance that applies to its organization and to its purchasing and supply chains

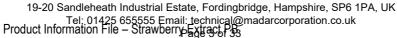
Through its "Smart science to improve lives" strategy, the group commits to being People Land and Climate Positive for 2030.

Proudly certified ISO14001, ISO 45001, ISO9001 and EFfCI for several years now, Crodarom has also signed the Responsible Care Global Charter in 2018.

Our supplier has initiated a continuous improvement process for its practices, the coherence of which is governed by standard ISO26000 we are committed to minimize social and environmental impacts on our stakeholders without compromising innovation and quality.

This strategy is also aligned with United Nation Sustainable Development Goals.







Our supplier has established a code of conduct which includes all its commitments. It aimed to formalize and share our ethical, social and environmental commitments and to unite all our partners around such values. "Code of conduct for responsible relationships and purchasing" is available on our website.

In 2019, this strategy is named Be ACTIVEly Committed and based its commitments on 3 pillars: PEOPLE, PLANET and BUSINESS.

### **Be ACTIVEly Committed TO BUSINESS**

- Business loyalty: undertakes to respect all French and international regulations in the countries where it is established. Particularly with the NAGOYA protocol.
  - The company seeks to establish win-win collaboration based on fair practices and favorize social responsibility across the entire value chain.
- Questions to consumers: assesses / certifies its practices with different standards such as COSMOS, ERI 360, ISO 16128, Halal, ...

## **Be ACTIVEly Committed TO PEOPLE**

- Human rights:
   pays particular attention on human rights and know-how respect in its
   organization (prohibit all discrimination, promote gender equality...).
- Relation and health at work:
   ensures management of health, safety and well-being at work (ISO45001) and promote
   a strong culture related to safety.
- Community & local development:
   encourages local development through the sourcing of its raw materials, its
   collaborations (university, organism) but also by promoting education (interns and
   apprentices, visiting students on the factory, etc.).

#### **Be ACTIVEly Committed TO THE PLANET**

Environment:

ensures environmental management (ISO14001). The company aims to reduce its consumption of water, wastes and energy in particular by promoting green technologies (Eco-sound, Microwaves, etc.).

The group is also engaged in a decarbonization project to reduce its carbon footprint. In addition, achieves carbon offsetting through an environmental project (Climate Care, Rimba Raya project).



## II.PRODUCT INFORMATION

## Composition

Ingredient PCPC INCI Name	CAS	<u>EINECS</u>	<u>Function</u>	Origin*	Free of GMO (Yes / No)	Concentration (%)  based on theoretical composition
Water	7732-18-5	231-791-2	Solvent	N	N/A	56 - 60 %
Glycerin	56-81-5	200-289-5	Solvent	V	Yes	38 - 42 %
Fragaria Vesca (Strawberry) Fruit Extract	84929-78-2	284-556-1	Plant	V	Yes	1 - 5 % **
Potassium Sorbate	24634-61-5	246-376-1	Preservative	S	N/A	Approx. 0,3 %
Sodium Benzoate	532-32-1	208-534-8	Preservative	S	N/A	Approx. 0,3 %
Citric Acid	5949-29-1	611-842-9	Co-additive	V + B	N/A	Approx. 0,1 %

<sup>\*</sup> V: vegetable; S: synthetic, B: biotechnological; N: natural

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

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

**Product Certifications** 

Strawberry Extract PB is Halal certified by HCS (Halal Certifying Services).

Uses

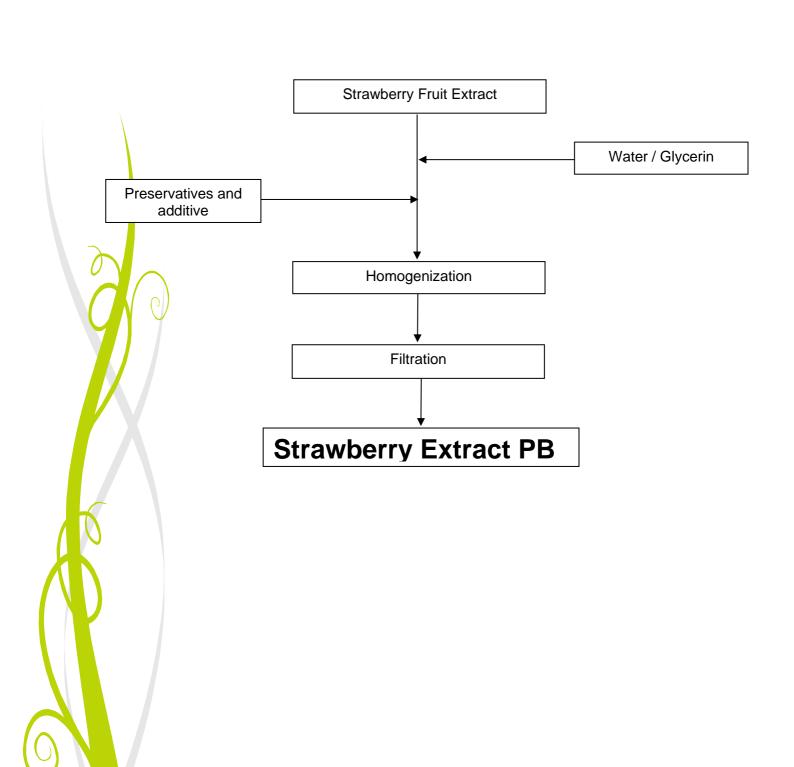
#### Cosmetic application:

Creams, lotions
Shampoos
Bath products
Refreshing and astringent face and hair tonics

19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk
Product Information File – Strawbern



<sup>\*\*</sup> Fragaria Vesca (Strawberry) Fruit Extract has been concentrated in a preliminary step. 1kg of this concentrated extract corresponds to approx. 9-10kg of **fresh** fruits.



CAC NO

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: Diethylene Glycol: Glycerin used to produce Strawberry

Extract PB Art. N°NA22446 is compliant with the USP

monograph (DEG: < 0.10%).

- Methanol: Maximum expected 4 ppm (not tested – conclusion by

analogy). Impurity from Glycerin.

- Formaldehyde: Not added - not expected - not tested\*

- Nitrosamines: Not added - not expected - not tested\*

- Nonylphenol, alkylphenol,

Cubatanaa

phenol, nonoxynol components: Not added - not expected - not tested\*

- Dioxanes: Not added – not expected – not tested\*

- Phthalates: Not added - not expected - not tested\*

Substance	CAS N°
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	CAS N°
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	E) 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:**

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

Strawberry Extract PB 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:

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

Strawberry Extract PB contains Methanol (maximum expected 4 ppm) as impurity from Glycerine. This content is based on conclusion by analogy.

However, VOC content is not a part of our routine analytical procedures and quality control system; therefore, they are not measured on a regular basis.

### **Proposition 65:**

The ingredients constituting Strawberry Extract PB 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. Methanol (impurity from glycenin): Maximum expected 4 ppm.

#### Palm Oil:

We herewith confirm that palm oil and palm kernel oil are not used as raw materials and are not intentionally added in Strawberry Extract PB, 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 Strawberry Extract PB is not derived from petrochemicals raw materials,

However, according to our raw materials suppliers Potassium Sorbate (approx. 0.3 %) is used as raw material and is derived from petrochemicals.

And, according to our raw materials suppliers Sodium Benzoate (approx. 0.3 %) is used as raw material and may be derived from petrochemicals.

#### Irradiation:

We herewith confirm that Strawberry Extract PB has not been irradiated radioactively.

## <u> Allergens – EU Cosmetic Regulation:</u>

We herewith confirm that Strawberry Extract PB , 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

<sup>\*</sup> 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 Strawberry Extract PB, 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 SO2	No	Yes

<sup>\*</sup>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 Crodarom products. 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 Strawberry Extract PB is:

Natural content (%)	Derived natural content (%)*	Organic content (%)	Derived organic content (%)
59,3	99,4	0,0	0,0

<sup>\*:</sup> 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.

## III. REGULATORY INFORMATION

## **REACH:**

Crodarom SAS 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.

Strawberry Extract PB 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	1	1
Glycerin	56-81-5	200-289-5	Exempt	Annex V
Fragaria Vesca (Strawberry) Fruit Extract	84929-78-2	284-556-1	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
Citric Acid	5949-29-1	611-842-9	Registered	01-2119457026-42

If in the future the amount of a substance produced would exceed the 1T/year limit, we 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.

#### **SVHC**

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



## **Chemical Inventory Status:**

Ingredient PCPC INC Name	CAS	China IECSC	Canada DSL / NDSL	Australia AICIS	New Zealand NZIoC	Philippines PICCS	<b>Taiwan</b> TCSI
Water	7732-18-5	Listed	Listed	Listed	Listed	Listed	Listed
Glycerin	56-81-5	Listed	Listed	Listed	Listed	Listed	Listed
Fragaria Vesca (Strawberry) Fruit Extra	et 84929-78-2	Listed	Not listed	Listed	Listed	Not listed	Listed
Potassium Sorbate	24634-61-5	Listed	Listed	Listed	Listed	Listed	Listed
Sodium Benzoate	532-32-1	Listed	Listed	Listed	Listed	Listed	Listed
Citric Acid	5949-29-1	Listed	Listed	Listed	Listed	Listed	Listed

#### USA:

The product complies with US legislation applicable to cosmetic ingredients. Cosmetic ingredients are exempt from TSCA (Toxic Substances Control Act).

#### Canada:

- Non listed DSL substances can be imported in quantities not exceeding 100kg/year/importer,
- NDSL substances can be imported in quantities not exceeding 1000kg/year/import.

#### Australia:

- Non-hazardous substances introduced at 1% or less in cosmetic are exempt from AICS listing (annual report to NICNAS before or on 28 September each year),
- No unreasonable risk substances imported at not more than 10kg in a 12-month period are exempt from AICS listing (annual report to NICNAS before or on 28 September each year),
- No unreasonable risk substances imported at not more than 100kg in a 12-month period are exempt from AICS listing with notification (annual report to NICNAS before or on 28 September each year),
- "Naturally occurring" according to the NICNAS definition are exempt of AICS listing.

## **Cosmetic Status:**

Ingredient INCI Name PCPC	China (IECIC 2021)	Japan	Korea
Water	水	水	정제수
Glycerin	甘油	グリセリン	글리세린
Fragaria Vesca (Strawberry) Fruit Extract	野草莓 (FRAGARIA VESCA) 果提取物	エゾヘビイチゴ果 実エキス	산딸기추출물
Potassium Sorbate	山梨酸钾	ソルビン酸K	포타슘소르베이트
Sodium Benzoate	苯甲酸钠	安息香酸Na	소듐벤조에이트
Citric Acid	柠檬酸	クエン酸	시트릭애씨드

## **EU Cosmetic Regulation:**

We herewith confirm that, Strawberry Extract PB 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. 0.3 % Sodium Benzoate: approx. 0.3 %

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:

Strawberry Extract PB 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:**

Strawberry Extract PB is not expected to contain microplastics with reference to the confirmation of our raw materials suppliers.

#### BSE/TSE:

Strawberry Extract PB is originated from synthetic, biotechnological 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:

Strawberry Extract PB 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 Strawberry Extract PB 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



## IV. INFORMATION ON ANIMAL TESTING

Crodarom SAS confirms that since 1990, 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 Crodarom.

Crodarom 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.

## V. ACTIVES and EFFECTS

## Main actives in the plant:

- ⇒ Tannins
- ⇒ Fruits acids
- ⇒ Sugars, proteins

Main actives in the extract:

Not determined



## VI. 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 Strawberry Extract PB but according to literature, Gycerin, *Fragaria vesca* don't contain potentially toxic compounds and they are safe when used appropriately.

## Toxicological profile of the ingredients

Fragaria vesca, commonly called wild strawberry, produces edible fruits. Fragaria vesca has been consumed by humans since the Stone Age. (1)

CIR (2019) (2) concluded that Glycerin is safe as a cosmetic ingredient.

In a safety assessment of Sorbic Acid and Potassium Sorbate (Elder, 1988) (3), the CIR Expert Panel stated that these ingredients are safe as cosmetic ingredients.

CIR (2001) (4) 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%.

The CIR Expert Panel (Panel) (5) concluded that citric acid is safe in the present practices of use and concentration.

⇒ Human skin irritation:

Glycerin: Not dermally irritating in rabbits (at concentrations up to 100%) and

human; but is a mild dermal irritant at 100% in guinea pigs. (2)

Potassium Sorbate: Not irritating (rabbits, semi-occlusive patch) (OECD 404) (6)

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). (7) (8)

Citric Acid: Not a dermal irritant at concentrations up to 5% aqueous on human skin

(5)

⇒ Mucous membrane irritation:

Glycerin: Non-irritating to the eye in rabbit irritation studies in 19 laboratories and of

questionable irritation in one laboratory (0,1 mL for maximum 7 days). (9)

Potassium Sorbate: Not irritating to eyes (rabbits) (OECD 405) (6)

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) (7) (8)

Citric Acid: Not be considered irritating to the eyes according to EU criteria (rabbits,

10% and 30% aqueous solution, observation 14 days after treatment)

(OECD 405) (10) (11)



⇒ Sensitisation potential:

Glycerin: Not dermal sensitizer, based on human studies (9)

Potassium Sorbate: Not sensitizer (guinea pigs) (6)

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).

(7)

Citric Acid: Not considered a sensitizer (OECD 429) (5) (12)

⇒ Cytotoxicity: No data available

⇒ Phototoxicity: No data available

⇒ Genotoxicity:

Glycerin: Not mutagenic (Ames test on *S. typhimurium* at a maximum concentration

of 10000 µg/plate) (2) (9)

In a bone marrow chromosomal aberration assay, glycerin was not clastogenic when administered by injection into the abdomens of rats at

1000 mg/kg (2)

Potassium Sorbate: Not mutagenic (Ames test on *S. typhimurium*) (6)

Sodium Benzoate: Not mutagenic in the S. typhimurium and E. coli reverse mutation assays

(EOCD 471) (7) (8)

Citric Acid: 3000 µg/mL of citric acid induces cytotoxicity and micronuclei formation

on lymphocytes peripheral human (50, 100, 200, 3000 µg/ml, method

similar to OECD draft guideline 487). (10)

Not mutagenic (Ames test on *S. typhimurium*, OECD 471)

No induction of chromosomal damage in bone marrow of rats fed up with

3000 mg/kg/d for 5 days. (5) (11)

⇒ Carcinogenicity:

Glycerin: No indication of a carcinogenic response in rats fed with 8000 mg/kg bw/d

glycerol in the diet for 2 years

Did not increase the incidence of tumours when Glycerin administered in the feed of rats at concentrations up to 20% for 1 year or up to 10000

mg/kg for 2 years (9)

Potassium Sorbate: Not carcinogenic (NOAEL = 1400 mg/kg bw/d), according to regulation

(EC) No 1272/2008 (6)

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). (7)

No effect on the survival or tumour distribution of the treated mice (mice,

average daily intake of 5950-6200 mg/kg bw/d) (8)

Citric Acid: No evidence of carcinogenicity (rats, approx. 2000 mg/kg bw/d, exposition

for 2 years). (11)

⇒ Acute toxicity:

Glycerin:  $LD_{50}$  (mice, oral) = 4090 - 38000 mg/kg

 $LD_{50}$  (rats, oral) = 27 200 mg/kg (9)

LD<sub>50</sub> (rats, topical application) >21900 mg/kg

LD<sub>50</sub> (rabbits, topical application) >18700 mg/kg (2)

Potassium Sorbate:  $LD_{50}$  (rats, oral) = 10500 mg/kg bw

 $LD_{50}$  (rats, dermal) > 2000 mg/kg bw (6)

19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK
Tel: 01425 655555 Email: technical@madarcorporation.co.uk
Product Information File – Strawberry Extrast of \$\mathbb{B}\_3\$



Sodium Benzoate: LD<sub>50</sub> (rats, oral) = 3140 mg/kg bw

 $LD_{50}$  (rabbits, dermal) > 2000 mg/kg bw (7)

Citric Acid:  $LD_{50}$  (mice, oral) = 5400 mg/kg bw (OECD 401)

 $LD_{50}$  (rats, dermal) > 2000 mg/kg bw (OECD 401) (10)

 $LD_{50}$  (rats, oral and dermal) > 5000 mg/kg (12)

⇒ Inhalation toxicity:

Glycerin: The NOAEL of glycerin following aerosol exposure was 167 mg/m³ based

on local irritant effects on the upper respiratory tract (rats, air, Glycerin concentrations: 33, 165 and 660 mg/m³, 6 hours/ day for 5 days/week for

13 weeks). (2) (9) (13)

⇒ Chronic toxicity:

Glycerin: NOAEL (rats, oral, exposition for 2 years) = 8000-10000 mg/kg bw/d

(study design followed intent of OECD 452) based on the absence of

treatment related effects in high dose animals (9) (13)

NOAEL (rabbits, dermal, exposition for 8 hours/day, 5 days/week for 45

weeks) = 5040 mg/kg bw/d based on no sign of irritation (9)

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, notreatment related effects on food consumption and no changes in neurotoxicological measurements were observed during the study. (6)

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. (7)

Citric Acid: NOAEL (rats, oral, 2 years) = 1200 mg/kg bw/d. Slightly decreased growth

was observed but no tissue abnormalities were found on examination of

the major organs. (11)

⇒ Reproduction toxicity:

Glycerin: No effect noted on growth, fertility and reproductive performance through

two generations (rats, oral at a dose level of ~2000 mg/kg/day for 90

days). (9)

No developmental toxicity of offspring of female rats, mice and rabbits (2)

(9)

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.

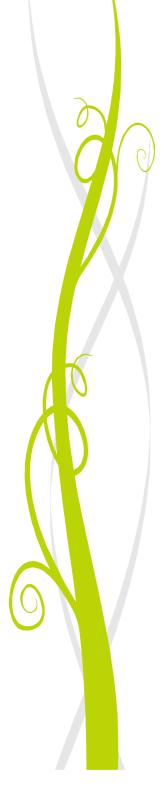
(6)

Sodium Benzoate: NOAEL (rats, oral, 4-generation reproductive toxicity study) = 500 mg/kg

ow/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). (8)



## VII. 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

## VIII. REFERENCES

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Version: (

**Date:** 01/2022



### **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.

Product Information File - Strawberry Extract PB

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



## STRAWBERRY EXTRACT PB

Version 2.1

Revision Date: 20.02.2023

Product code: NA22446

Date of last issue: 01.04.2019 Date of first

issue: 01.04.2019 Print Date : 31.10.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : STRAWBERRY EXTRACT PB

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

Use of the : Manufacture of soap and detergents, cleaning and polishing

Substance/Mixture mixtures

Cosmetic additive

1.3 Details of the supplier of the safety data sheet

Company : Madrr Corporation Limited

19 - 20 Sandleheath Indsutrial Estate

Fordingbridge SP6 1PA

Telephone : +441425 655 555

Telefax : +441425 655 555

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

1.4 Emergency telephone number

Emergency telephone number : USA: 24 Hour Emergency Response Information CHEMTREC

toll free: 1-800-424-9300; direct/international: 1-703-527-3887. CANADA: GFL 1-877-898-7222. 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: Ambipar 0800 117 2020. LATAM:

Suatrans (+55) 11 98149-0850 / (+55) 19 3833-5300.

COLOMBIA: +312 586 2890 / 310 588 1555. 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: Sağlik Bakanliği 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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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

physician immediately.

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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

> circumstances and the surrounding environment. Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

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

for firefighters

Special protective equipment : 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.

**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.

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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.

**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

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

: 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

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

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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

Colour : orange

Odour : characteristic

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 : 1.085 - 1.115 g/cm3 (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

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

#### **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

Respiratory or skin sensitisation

**Product:** 

Remarks : No data available

Germ cell mutagenicity

**Product:** 

Genotoxicity in vitro : Remarks: No data available

Carcinogenicity

**Product:** 

Carcinogenicity - : No data available

Assessment

Reproductive toxicity

**Product:** 

Reproductive toxicity -

: No data available

Assessment

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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

12.4 Mobility in soil

**Product:** 

Distribution among : Remarks: No data available

environmental compartments

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.

19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk Page 28 of 33

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#### 12.6 Other adverse effects

**Product:** 

**Endocrine disrupting** 

potential

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Additional ecological

information

: No data available

#### **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.

### **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

## 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 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

Relevant EU provisions transposed through retained EU law

#### 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

#### **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; AIIC - Australian Inventory of Industrial Chemicals; 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; (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 -

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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; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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, EFfCl, ISO14001 and ISO45001 standards.

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**Product Name:** STRAWBERRY EXTRACT PB!

Specification: 01/07/2021

Period of validity of Certificate of Analysis for material stored in unopened containers and stored in cool dry conditions (unless otherwise specified): 1,095 days.

Analy. Test	Characteristic Specification Limits		5	Units
Method No.		Lower	Upper	
	REVISION NUMBER	2.0		
AC018000	APPEARANCE FORM	LIQUID		
AC018000	APPEARANCE CLARITY	CLEAR		
AC018000	APPEARANCE COLOUR	PALE YELLOW	/ TO	
		DARK ORANG	E	
AC018000	ODOUR	CHARACTERIS	STIC	
FC0031A0	SPECIFIC GRAVITY	1.085	1.115	
	(20°C)			
FC0032A0	REFRACTIVE INDEX	1.370	1.400	
	(20°C)			
FC0064A0	pH VALUE (20°C)	4.0	6.0	
JC0054B0	TOTAL GERMS	100 MAX CFU/	G	
JC0054B0	MOULDS/YEASTS	10 MAX CFU/G	i	

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.

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

If you agree to accept this specification please complete the following section and return to the person named below. If we do not receive a reply from you within 14 days we will take this to indicate you have accepted the specification.



Date: 26.09.2022

**STATEMENT** 

We hereby confirm that the below mentioned product is derived from non-animal\* sources nor animal\* by-products (including dairy products, honey, eggs, pearls).

We further confirm 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 Crodarom and we will not carry out animal tests in the future to meet the requirements of the Cosmetic Regulation.

## **Strawberry Liquid Fruit Extract**

Cross-contamination cannot be excluded considering that some of the raw materials used in our 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 and with reference to our raw materials suppliers.

\* The word 'animal' is understood to refer to the entire Animal Kingdom, that is all vertebrates and all multicellular invertebrates.