



### Certificate of Analysis

Batch Details  
Product Name: MELON LIQUID FRUIT EXTRACT  
Batch No: 4367102  
Best Before End: JULY 2021

Appearance CLEAR LIQUID

#### Quality Control Results

Analytical Test Method No.	Characteristic	Specification Limit		Value	Unit	Status
		Lower	Upper			
FC0031AO	Addendum 00 SPECIFIC GRAVITY (20 °C)	PASS OR FAIL		1.065		p
FC0032AO	REFRACTIVE INDEX (20 °C)	1.985	1.400	1.392		p
FC0064AO	pH VALUE (20 °C)	4.0	6.5	5.1		p
FC0028AO	DRY RESIDUE (2.5g-105 °C-15h)	6.0	8.5	7.2	%	p
JC0054AO	TOTAL GERMS	100 MAX CFU/ML		Pass		p
JC0054AO	MOULDS/YEASTS	10 MAX CFU/ML		Pass		p

Store between 15-25 °C, dark in closed containers

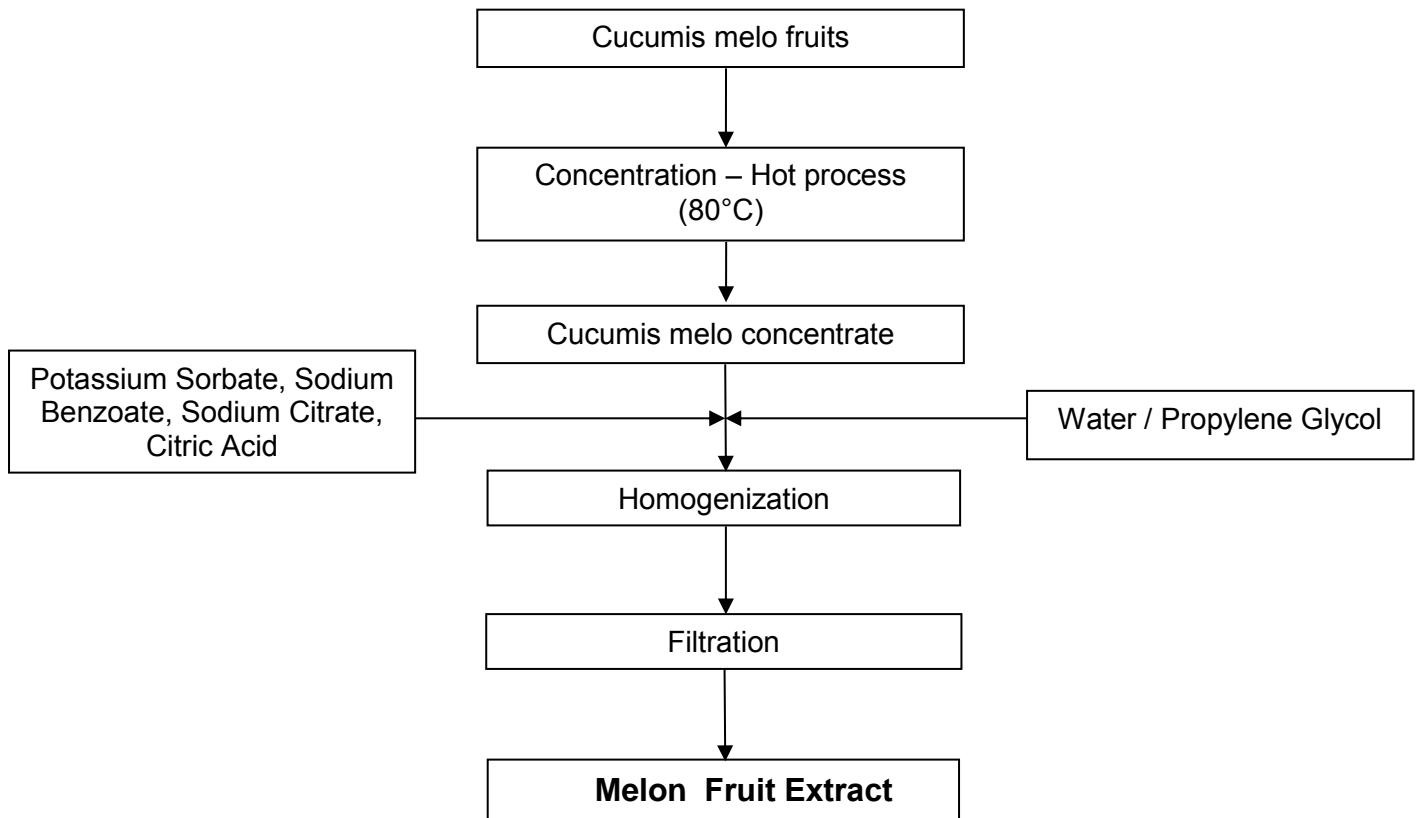
The performed analysis are guaranteed on original packaging when stored accordingly, stable for 12 months

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 Melon Liquid Fruit Extract



**1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE**

Product identifier:	Fruitliquid Melon
Relevant identified uses of the substance or mixture and uses advised against:	Cosmetic Products

**2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture:	The product does not need to be labelled in accordance with regulation (CE) 1907/2006 - 1272/2008 on classification, packaging and labelling of dangerous substances
EC number:	Not applicable.
Label elements:	
- Symbol(s):	None according to the regulation (EC) No 1907/2006 - 1272/2008 and amending.
- R-phrase(s):	None according to the regulation (EC) No 1907/2006 - 1272/2008 and amending.
- S-phrase(s):	None according to the regulation (EC) No 1907/2006 - 1272/2008 and amending.
Other hazards:	Not determined.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Component(s) contributing to the hazard:	None according to the regulation (EC) No 1907/2006 - 1272/2008 and amending.
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**4. FIRST AID MEASURES**

Description of first aid measures:	In case of doubt or persistent symptoms, consult always a physician.
Most important symptoms and effects, both acute and delayed:	There is no data available on the product itself.
- Inhalation:	Move to fresh air in case of accidental inhalation.
- Skin contact:	Wash skin with plenty of water and soap.
- Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion:	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**5. FIREFIGHTING MEASURES**

Extinguishing media:	foam, powder, carbon dioxide (CO <sub>2</sub> )
Extinguishing media which must NOT be used for safety reasons:	Do not use water jet.
Special hazards arising from the substance or mixture:	In case of fire and/or explosion do not breathe fumes.
Advice for firefighters:	Standard
Specific method(s):	Do not allow run-off from fire fighting to enter drains or water courses.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:	Concerning personal protective equipment to use, see item 8.
Environmental precautions:	Dike and contain spill. Prevent product from entering drains. Concerning disposal elimination after cleaning, see item 13.
Methods and material for containment and cleaning up:	Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth
Reference to other sections:	Concerning personal protective equipment to use, see item 8.

## **7. HANDLING AND STORAGE**

### Handling:

- Precautions for safe handling: Smoking, eating and drinking is prohibited in areas of storage and use. For personal protection, see Section 8.
- Technical condition(s): The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
- Safe handling advice(s): Opened containers must be carefully closed and kept upright to avoid leakage.

### Storage:

- Conditions for safe storage, including any incompatibilities: Keep container tightly closed. Store always product in container of same material as original container.
- Technical condition(s): Not applicable
- Storage condition(s): Keep at temperature not exceeding (°C): 15 - 25
- Separation of incompatible product(s): No incompatible products to be specially mentioned.
- Packaging / tank material: made of the same material as the supply container.
- Specific end use(s): Not determined.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### Control parameters:

- Exposure limit(s): No data available.

### Exposure controls:

- Respiratory protection: No personal breathing protective equipment is normally required.
- Hand protection: Wear suitable gloves. (natural rubber gloves., Latex gloves, PVC or other plastic material gloves)
- Skin and body protection: protective clothing
- Eye protection: Eye protection designed to protect against liquid splashes should be worn.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### Information on basic physical and chemical properties:

- Appearance: Clear liquid
- Colour: pale yellow to pale brown
- Odour: characteristic
- PH: 4.0 - 6.5 (20°C)
- Flash point: > 100°C
- Explosion limits: Not determined.
- Relative density (water = 1): 1.050 - 1.070 kg/l (20°C)

### Other information:

- Water solubility: Yes
- Fat solubility: No
- Solvent solubility: soluble in most organic solvents

## **10. STABILITY AND REACTIVITY**

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Review date: 31/05/2011

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Reactivity:	Stable under the recommended storage and handling conditions. (See Section 7).
Chemical stability:	Stable in use and storage conditions as recommended in item 7.
Possibility of hazardous reactions:	Stable in use and storage conditions as recommended in item 7.
Conditions to avoid:	None under normal use.
Incompatible materials:	No data available.
Hazardous decomposition products:	No data available.

**11. TOXICOLOGICAL INFORMATION**

Information on toxicological effects: Health injuries are not known or expected under normal use.

Acute toxicity:

- Inhalation: No data available.
- Skin contact: No data available.
- Eyes contact: No data available.
- Ingestion: No data available.

**12. ECOLOGICAL INFORMATION**

Toxicity:	Ecological problems are not known or expected under normal use.
Persistence and degradability:	Contains no substances known to be not biodegradable in waste water treatment plants.
Bioaccumulative potential:	Not determined.
Mobility in soil:	Not determined.
Other adverse effects:	Not determined.
Results of PBT and vPvB assessment:	Not determined.
General information(s):	The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

**13. DISPOSAL CONSIDERATIONS**

Waste treatment methods:	Collect all waste in suitable and labelled containers and dispose according to local legislation.
Contaminated packaging:	Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

**14. TRANSPORT INFORMATION**

General information(s):	Not classified as dangerous in the meaning of transport regulations.
UN number:	Not applicable.
Environmental hazards:	Ecological problems are not known or expected under normal use.
Special precautions for user:	For personal protection, see Section 8.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.

**15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture:	The user is always responsible for ensuring that the requirements of relevant legislation are complied with.
Chemical safety assessment:	Not applicable.

**16. OTHER INFORMATION**

Text of R phrases listed in section 3:

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Important remarks:	As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.
References and / or bibliography:	Code ED6-15-05c
- First edition date:	18/12/2003
- Previous revision date:	05/12/2006
- Review date:	31/05/2011
- Version:	4

## Composition Information

### Product Name: Melon Liquid Fruit Extract

**INCI Name :** Water, Propylene Glycol, Cucumis Melo (Melon) Fruit Extract

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

**Composition :**

Water	48 – 52%
Propylene Glycol	38 – 42%
Cucumis Melo (Melon) Fruit Extract*	8 – 10%

\* Cucumis Melo (Melon) Fruit Extract is expressed as fruit concentrate.  
1kg concentrate is obtained from 6-8 liters of fruit juice

<b>Preservatives :</b>	Potassium Sorbate	approx. 0.5%
	Sodium Benzoate	approx. 0.5%
	Benzoic Acid	approx. 0.5%
	Sorbic Acid	approx. 0.1%

**Antioxidant :** None

03/16

This composition replaces the earlier one dated 03/09

*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).

### **Melon Liquid Fruit Extract**

<b>INCI</b>	<b>CAS</b>	<b>EINECS</b>	<b>REACH status</b>	<b>Comment</b>
Water	7732-18-5	231-791-2	/	/
Propylene Glycol	57-55-6	200-338-0	Registered	01-2119456809-23
Cucumis Melo (Melon) Fruit Extract	90063-94-8	290-054-3	Exempt	Production < 1 T / year
Potassium Sorbate	24634-61-5	246-376-1	Registered	01-2119950315-41
Sodium Benzoate	532-32-1	208-534-8	Registered	01-2119460683-35
Benzoic Acid	65-85-0	200-618-2	Registered	01-2119455536-33
Sorbic Acid	110-44-1	203-768-7	Registered	01-2119950330-49

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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## Specification

**Product Name:** MELON LIQUID FRUIT EXTRACT  
**Product Code:** FEMELO  
**Specification:** 22/10/2014

Period of validity of Certificate of Analysis for material stored in unopened containers and stored in cool dry conditions (unless otherwise specified): 365 days.

Analy. Test Method No.	Characteristic	Specification Limits		Units
		Lower	Upper	
FC0031A0	SPECIFIC GRAVITY (20°C)	1.050	1.070	
FC0032A0	REFRACTIVE INDEX (20°C)	1.385	1.400	
FC0064A0	pH VALUE (20°C)	4.0	6.5	
FC0028A0	DRY RESIDUE (2.5g-105°C-15h)	6.0	8.5	%
JC0054A0	TOTAL GERMS	100 MAX CFU/ML		
JC0054A0	MOULDS/YEASTS	10 MAX CFU/ML		

between 15-25°C, dark in closed containers  
the performed analysis are guaranteed on original packaging  
when stored accordingly, stable for 12 months

## Toxicological dossier

### Product Name: Melon Liquid Fruit Extract

**INCI Name :** Water, Propylene Glycol, Cucumis Melo (Melon) 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	B
Propylene Glycol	B
Cucumis Melo (Melon) Fruit Extract	D

#### Origin of raw materials :

- Plant origin : Cucumis Melo
  - plant part : Fruits
  - from organic culture : No
  - free of GMO : Yes
- Synthetic origin : Propylene Glycol and preservatives
- Animal origin : No

#### Preservatives :

Potassium Sorbate	approx. 0.5 %
Sodium Benzoate	approx. 0.5 %
Benzoic Acid	approx. 0.5 %
Sorbic Acid	approx. 0.1%

#### Antioxidant :

None

#### Manufacturing process :

Multistep manufacturing process starting with Melon fruit juice concentration by hot evaporation of the water. Careful resolubilisation of the fruit powder in a propylene glycolic-aqueous carrier, conditioning, preservation, filtration 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 :	
Citric Acid	Maximum 200 ppm
Ethanol	Maximum 500 ppm

(not tested – conclusion by analogy)

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

⇒ Residual solvents:	Not expected – not tested
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## Total volatile components / Allergens content :

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

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

\*not expected as a component of the fruits of Cucumis Melo

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

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

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

## Hazardous & CMR Substances

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

Melon Liquid Fruit Extract

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

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

## **Animal testing**

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

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

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

### **Main actives in the plant :**

- ⇒ Minerals, vitamins
- ⇒ Sugars

**Main actives in the extract :** Not determined

### **Toxicological Data :**

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

Melons are commonly used as food. No toxicological effect may be expected taking into account the application form, the concentration, the amount used and the frequency of use.

No adverse report described when preparations of melon fruit are topically applied. The literature describes food allergies caused by melon intake for people with a fructose-intolerance.<sup>(2)</sup>

#### ⇒ 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 10 000 ppm on days 8-12 of gestation.<sup>(1)</sup>

### **Ecological Data :**

Our product contains mainly (Propylene glycol / Water) extraction vehicle :

- ⇒ 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 in as an additive in lotions, tonics, milks, bath- and shower formulations
- ⇒ Contraindications : None known
- ⇒ Side effects :  
Cucumis melo: Allergic reactions to melon have rarely been reported. The most important conditions linked to melon allergy are pollen allergy.<sup>(3)</sup>  
A new melon allergen has been isolated and characterized. It is the first evidence of the involvement of this plant protein family in food allergy.<sup>(4)</sup>  
However, the heat supported concentrated fruit juice is expected to inactivate the proteinous allergens of fresh melon juice. We do not expect adverse effects of our product in topical applications.
- ⇒ Interactions: None known

### References :

- (1) CIR Report, CTFA 2006 for toxicological information regarding Propylene Glycol
- (2) Hausen / Vieluf; Allergiepflanzen, Pflanzenallergene, ecomed, 2. Aufl. 1998: Gall J. J. et al.: Soforttypallergie auf Honigmelone; Allergo J 3, 135-139 (1994). *Not available*
- (3) Figueredo E, Cuesta-Herranz J, De-Miguel J, Lázaro M, Sastre J, Quirce S, Lluch-Bernal M, De las Heras M.; Clinical characteristics of melon (Cucumis melo) allergy ;Ann. Allergy Asthma Immunol, 2003, Sept 91 (3); 303-308. *Not available*
- (4) Teresa Asensio, Jesus F. Crespo, Rosa Sanchez-Monge, Gema Lopez-Torrejón, Maria L. Somoza, Julia Rodriguez and Gabriel Salcedo, Novel plant pathogenesis-related protein family involved in food allergy; Journal of Allergy and Clinical Immunology Volume 114, Issue 4, October 2004, Pages 896-899, *Not available*

09/15

This toxicological dossier replaces the earlier ones dated 09/06, 06/09, 04/12, 10/13

#### *Non-warranty*

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