

## **COSMETIC PRODUCT SAFETY ASSESSMENT**

## **DAPHNE SOAP**

This report prepared based on the Regulation (EC)No.1223/2009 and the SCCS's Notes Of Guidance For The Testing of Cosmetic Ingredients And Their Safety Evaluation 9th Revision 2015

 Version: 1.0
 Form No: 102071

 Prep. Date: 08.09.2022
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#### A. COSMETIC PRODUCT SAFETY INFORMATION

Information on Product Identity:

Product Name: DAPHNE SOAP

IntendedUse : Skin Care Product/ Soap / Rinse-off Product

Manufacturer : Fratello Kuyumculuk Hediyelik Eşya Ve Temizlik Ürünleri

Sanayi Dış Ticaret Limited Şirketi

Adress : Maltepe Mah. Maltepe Cad. No:15 Zeytınburnu/Istanbul

**Telephone** : +905367126565

## 1. Qualitative and Quantitative Composition of the Cosmetic Product

INCI NAME	EINECS/ ELINCS NO	CAS NO	CONCENTRATION (%)	FUNCTION
OLEA EUROPAEA FRUIT	232-277-0	8001-25-0	60,0	FRAGRANCE PERFUMING SKIN CONDITIONING
AQUA	231-791-2	7732-18-5	30,0	SOLVENT
COCOS NUCIFERA OIL	232-282-8	8001-31-8	20,0	FRAGRANCE HAIR CONDITIONING PERFUMING SKIN CONDITIONING

SODIUM HYDROXIDE   215-185-5   1310-73-2   10,0   DENATURANT	SODIUM HYDROXIDE	215-185-5	1310-73-2	10,0	BUFFERING DENATURANT
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LAURUS NOBILIS LEAF	8002-41-3 / 8007-48-5	1,0	FRAGRANCE
OIL	8002-41-3 / 8007-48-3	1,0	PERFUMING
LAURUS NOBILIS LEAF		1,0	FRAGRANCE
			FRAGRANCE
PARFUM		1,0	SKIN
			CONDITIONING

<sup>\*</sup>SODIUM HYDROXIDE is allowed in cosmetic products under the following conditions set in Annex III (15a) of Regulation (EC) No 1223/2009:

**Annex III:** List of substances which cosmetic products must not contain except subject to the restrictions laid down

## 1.2. Control of Substances Compliance with Regulation

List of Substances which cosmetic products must not contain except subject to the restriction slaid down Cosmetic Regulation (EC) No 1223/2009

## 2. Physical/Chemical Characteristics and Stability of theCosmetic Product

## 2.1. Physical / Chemical Characteristics

The following table was formed by examining the specification of the final product.

The cosmetic product "argania" soap has the following physical/chemical characteristics:

			Pa	irame	eter	Specifications	Result
יוסוב	pticC	hara	cteri	stics	Appearance	SOLID SOAP	APPROVED

Version: 1.0 Form No: 102071
Prep. Date: 08.09.2022 RevisionDate: 8.09.2022

	Color	CHARACTERISTIC	APPROVED
	Odor	CHARACTERISTIC	CHARACTERISTIC
Physicochemical Characteristic	рН	10 – 10,5	APPROVED

The stability of the product has been tested at, 25°C 12 months and in the original package of the product.

During this period, appearance, color, odor, pH and other parameters were tested.

It was stated that during the stability tests, no deviation/separation from the original condition of the product was observed.

The results obtained from the stability test are considered to be acceptable.

The durability period of the product after opening is stated on the label as 12 months.

The protocol with results of stability testing is attached in **Annex**.

#### 3. Microbiological Quality

Staphylococcus aureus, Pseudomonas aeruginosa, and Candida albicans and Escherichia coli are the microorganisms that should not be present in cosmetic products. Since different skin areas may have different sensitivity, two different categories have been defined for cosmetic products;

**Category 1** Products for children under 3 years of age, products applied to the eye area, products applied to mucosmembranes, products not rinsed

**Category 2** Other products, rinsed productsCategory 1: Total number of live aerobic mesophilic microorganisms (bacteria, yeast and mold) should not exceed 10<sup>2</sup>cfu/g or 10<sup>2</sup>cfu / ml. Staphylococcus aureus, Pseudomonas aeruginosa, Candida albicans or Escherichia coli should not be present.

**Category 2:** The total number of live Aerobic mesophilic microorganisms must not exceed 10<sup>3</sup>cfu / g or 10<sup>3</sup>cfu / ml. *Staphylococcus aureus, Pseudomonas aeruginosa*, and *Candida albicans* and *Escherichia coli*should not be present.

ChallengeTest; ISO 11930

The test involves preparing appropriate microorganisms at certain inoculum levels and counting the

microorganisms in the sample by sowing from the sample containing the microorganism at specific time

intervals

. It is judged whether the protective property of the product is sufficient by observing whether a significant

decrease or increase of the microorganisms in the test conditions on days 7, 14 and 28 is observed appropriately

pH: 10-10.5; therefore considered as no risk

4. Impurities, Traces, Informations about the Packaging Material

**DAPHNE SOAP** is presented to the consumer in 135 g packaging.

The product was analyzed according to the packaging standards. Raw material specifications are

available upon request.

It consists of suitable cosmetic quality components, which are the packaging materials of the product.

There is no negative result with regard to any interaction or deterioration of the packaging material with

the product.

5. Normal and Reasonably Foreseeable Use

Warnings on the product label:

Avoid contact with eyes and mouth. In case of contact,

rinse thoroughly with plenty of water.

Application of the Product:

Before use, read

the instructions of your product at sopna.co, you can

access the site with QR code. Keep in a dry place

6. **Exposure to the Cosmetic Product** 

Product type: Leave-on product

The sites of aplication: Area body

 Version: 1.0
 Form No: 102071

 Prep. Date: 08.09.2022
 RevisionDate: 8.09.2022

The surface areas of application (cm<sup>2</sup>): 17500

Estimated amount of product applied (g): 18,67g

The duration and frequency of use: 1,43/day

Retention factor: 0,01

The normal and reasonably foreseeable exposure route:Dermal

Exposed popultion:Adulds

A = 2,79 mg/kg bw /day

('The SCCS's Notes Of Guidance For The Testing Of Cosmetic Ingredients And Their Safety Evaluation 9th Revision 2015)

#### 7. Exposure to the Substances

Dermal absorption reported as a percentage of the amount of substances applied:

SED = A (mg/kg bw/day)  $\times$  C(%)/100  $\times$  DAp (%)/100

SED A (mg/kg bw/day) :Systemic exposure dosage

A (mg/kg bw/day): Estimated daily exposure to a cosmetic product per kg body weight, based upon the amount applied and the frequency of application

C (%):The concentration of the ingredient under study in the finished cosmetic product on the application site.

DAp (%): Dermal Absorption expresed as a percentage of the test dose assumed to be applied in real-life conditions

A = 2,79mg/kg bw/day. An adult's body weigth was accepted 60 kg(Base on The SCCS's Notes Of Guidance For The Testing Of Cosmetic Ingredients And Their Safety Evaluation 9th Revision, 2015.)

Hamaddenin INCI Adı	OLEA EUROPAEA FRUIT OIL
Konsantrasyon C	% 60

A (mg/kg vücut ağırlığı/gün)	2.79
Dermal Absorbsiyon DAp (%)	% 100

SED = A (mg/kg vücut ağırlığı/gün) X C (%) / 100 X DAp (%) / 100

SED =2.79 (mg/kg vücut ağırlığı/gün) X 50 (%) / 100 X 100 (%) / 100

SED = 1.674 (mg/kg vücut ağırlığı/gün)

Hamaddenin INCI Adı	COCOS NUCIFERA OIL
Konsantrasyon C	%20
A (mg/kg vücut ağırlığı/gün)	2.79
Dermal Absorbsiyon DAp (%)	% 100

SED = A (mg/kg vücut ağırlığı/gün) X C (%) / 100 X DAp (%) / 100

SED =2,79 (mg/kg vücut ağırlığı/gün) X 15 (%) / 100 X 100 (%) / 100

SED = 0,558 (mg/kg vücut ağırlığı/gün)

Hamaddenin INCI Adı	RICINUS COMMUNIS SEED OIL
Konsantrasyon C	%5
A (mg/kg vücut ağırlığı/gün)	2.79
Dermal Absorbsiyon DAp (%)	% 100

SED = A (mg/kg vücut ağırlığı/gün) X C (%) / 100 X DAp (%) / 100

SED =2,79 (mg/kg vücut ağırlığı/gün) X 5 (%) / 100 X 100 (%) / 100

SED = 0,1395 (mg/kg vücut ağırlığı/gün)

Hamaddenin INCI Adı	PARFUM
Konsantrasyon C	%1
A (mg/kg vücut ağırlığı/gün)	2.79
Dermal Absorbsiyon DAp (%)	% 100

SED = A (mg/kg vücut ağırlığı/gün) X C (%) / 100 X DAp (%) / 100

SED =2,79 (mg/kg vücut ağırlığı/gün) X 2 (%) / 100 X 100 (%) / 100

SED = 0,0279(mg/kg vücut ağırlığı/gün)

 Version: 1.0
 Form No: 102071

 Prep. Date: 08.09.2022
 RevisionDate: 8.09.2022

Hamaddenin INCI Adı	LAURUS NOBILIS LEAF OIL
Konsantrasyon C	%1
A (mg/kg vücut ağırlığı/gün)	2.79
Dermal Absorbsiyon DAp (%)	% 100

SED = A (mg/kg vücut ağırlığı/gün) X C (%) / 100 X DAp (%) / 100

SED =2,79 (mg/kg vücut ağırlığı/gün) X 2 (%) / 100 X 100 (%) / 100

SED = 0,0279(mg/kg vücut ağırlığı/gün)

Hamaddenin INCI Adı	LAURUS NOBILIS LEAF
Konsantrasyon C	%1
A (mg/kg vücut ağırlığı/gün)	2.79
Dermal Absorbsiyon DAp (%)	% 100

SED = A (mg/kg vücut ağırlığı/gün) X C (%) / 100 X DAp (%) / 100

SED =2,79 (mg/kg vücut ağırlığı/gün) X 2 (%) / 100 X 100 (%) / 100

SED = 0,0279(mg/kg vücut ağırlığı/gün)

INCI NAME	CONCENTRATION (%)	RETANTION FACTOR (R)	DERMAL ABSORPTION DAn (%)	SED (mg/kg bw/day)
OLEA EUROPAEA FRUIT OIL	60,0	0,01	100	1,674
COCOS NUCIFERA OIL	20,0	0,01	100	0,558
RICINUS COMMUNIS SEED OIL	5,0	0,01	100	0,1395
LAURUS NOBILIS LEAF OIL	1,0	0,01	100	0,0279
LAURUS NOBILIS LEAF	1,0	0,01	100	0,0279
PARFUM	1,0	0,01	100	0,0279

### 8. Toxicological Profile of the Substances Involved in the Formula

## 8.1. Calculation of Margin of Safety (Mos)

The product itself has not been subjected to animal experiments. Information about raw materials has been benefited from previous studies.

MoS: Margin of safety of an ingredient

NO(A)EL: The highest exposure of a chemical, determined in toxicity tests etc., having no adverse effect(e.g, onset of sickness) even when the chemical is taken (exposed) daily for the rest of one's life. In practice, mise, rats or other animals are forced to take a chemical for a certain period of time. Usually NOAEL is expressed in the amount of a chemical taken daily per kg body weight (e.g.,mg/kg/day)Safety limit of raw materials with NOAEL value is calculated and stated in the table below

INCI Name	SED (mg/kg/ bw/day)	NO(A)EL (mg/kg vücutağırlığı/gün)	MoS (NOAEL/SED)	Reference
OLEA EUROPAEA FRUIT OIL	1,674	N/A	N/A	according to CIR Expert Panel (2011), for more information see the toxicological profile of OLEA EUROPAEA FRUIT OIL; <a href="https://www.cir-safety.org/sites/default/files/">https://www.cir-safety.org/sites/default/files/</a> /118 final oils web.pdf
AQUA	0,6975	-	-	-
COCOS NUCIFERA OIL	0,558	No adverse effects were noted in either test group during the test period. The authors concluded that Coconut Oil was as effective and safe as	N/A	https://www.cir- safety.org/sites/default/files /115 buff3e suppl.pdf

 Version: 1.0
 Form No: 102071

 Prep. Date: 08.09.2022
 RevisionDate: 8.09.2022

		mineral oil when		
		used as a		
		moisturizer.		
RICINUS COMMUNIS SEED OIL	0,1395	N/A	N/A	The very limited data on acute toxicity in target animals comprise mainly information on castor bean products rather than on purified ricin. Amongst ruminants, cattle appear to tolerate higher intakes than sheep. In horses severe colic and death have been observed after a single dose of approximately 7-8 mg ricin/kg b.w. Toxic effects in pigs and birds have been reported as well as accidental poisonings in dogs with vomiting, depression and diarrhoea as the main clinical signs. No- or lowest observed adverse effect levels (NOAELs or LOAELs) for acute effects of ricin could not be identified for any of the animal species. https://efsa.onlinelibrary.wiley.com/doi/pdf/10.2903/j.efsa.2008.726
LAURUS NOBILIS LEAF OIL	0,0279	N/A	N/A	https://doi.org/10.1590/s21 75-97902019000318302
PARFUM	0,0279	N/A	N/A	

#### 8.2. Toxicological Assessment of the Subtances Involved in the Formula

Raw materials and mixtures involved in the formula has been evaluated by classifying according to their trade names:

### Olea Europaea (Olive) Fruit Oil

		1 subject had slight erythema	
1.6% Olea Europaea (Olive)	HRIPT with 0.02 ml test	following the 7th patch that did not	
Fruit Oil in a body lotion	material , occluded	reoccur, no other reactions observed.	
		Not a dermal irritant or sensitizer	
22% Olea Europaea (Olive) Fruit			
Oil in a body	HRIPT, semi-occluded	Not a dermal irritant or sensitizer	
moisturizer			
58.7% Olea Europaea (Olive)			
Fruit Oil in a conditioning	HRIPT with 0.2 ml, semi-		
not a dermal irritant or	occluded	Not a dermal irritant or sensitizer	
sensitizer			
69.6% Olea Europaea (Olive)	HRIPT with 200 μl test material,	Not a dermal irritant or sensitizer	
Fruit Oil in a foundation	occluded	Not a definal inflant of Sensitizer	

https://www.cir-safety.org/sites/default/files/118 final oils web.pdf

## Cocos Nucifera (Coconut) Oil

The oil is obtained from the pulp of coconut palm nuts. Contains triglycerides of fatty acidssuch as: lauric, myristine, oleic, capric and capron. According to the CIR opinioncoconut oil and its derivatives, coconut acid, hydrogenated coconut oil and hydrogenated acidCoconut has been recognized as safe for use in products in current practicesuse and concentrations (Final Report Cosmetic Ingredient Review Expert Panel Amended SafetyAssessment of Cocos Nucifera (Coconut) Oil, Coconut Acid, Hydrogenated Coconut Acid, HydrogenatedCoconut Oil, Ammonium Cocomonoglyceride Sulfate, Butylene Glycol Cocoate, Caprylic / Capric / CocoGlycerides, Cocoglycerides, Coconut Alcohol, Coconut Oil Decyl Esters, Decyl Cocoate, EthylhexylCocoate, Hydrogenated Coco-Glycerides, Isodecyl Cocoate, Lauryl Cocoate, Magnesium Cocoate, Methyl Cocoate, Octyldodecyl Cocoate, Pentaerythrityl Cocoate, Potassium Cocoate, PotassiumHydrogenated Cocoate, Sodium Cocoate, Sodium Cocomonoglyceride Sulfate, Sodium HydrogenatedCocoate, and Tridecyl Cocoate September 23, 2008 Safety Assessment). Maximum safethe concentration in the cosmetic is up to 80%.

 Version: 1.0
 Form No: 102071

 Prep. Date: 08.09.2022
 RevisionDate: 8.09.2022

https://www.cir-safety.org/sites/default/files/119 draft decylg suppl1.pdf

**RICINUS COMMUNIS SEED OIL** 

SUMMARY Ricin is a toxic glycoprotein (with several minor variants) belonging to the type II group of ribosome inactivating proteins (type II RIP) found in the seeds (beans) of the castor oil plant (Ricinus communis L. (Euphorbiaceae)). It is composed of two polypeptide chains of approximately 30 kDa joined by a disulfide bond. A limited number of other plants in the same family contain type II RIPs, i.a. subtropical leguminous climber Abrus precatorius L. and, Croton 1 For citation purposes: Scientific Opinion of the Panel on Contaminants in the Food Chain on a request from the European Commission on ricin (from Ricinus communis) as undesirable substances in animal feed. The EFSA Journal (2008) 726, 1-38. Opinion on ricin as undesirable substance in animal feed The EFSA Journal (2008) 726, 2-38 tiglium L. which contain abrin and crotin I, respectively. The seeds of Croton tiglium contain a number of other toxins which make it unsuitable as a feed for livestock. In the Terms of Reference, the plant Jatropha curcas was also requested to be considered, however, it does not contain a RIP II protein. The toxicity of its seeds can be ascribed to the oil, which contain phorbol esters and this plant is therefore not relevant for this opinion on ricin.

Following extraction of castor oil, ricin is left in the press-cake/castor bean meal2. Castor oil production mainly takes place outside the EU. Because of its low value of the press-cake as feed no import to the EU is expected.

Following cell uptake by endocytosis, ricin causes acute cell death by inactivation of ribosomal RNA. Acute symptoms in humans after intake of castor beans are hematemesis (vomiting containing blood), diarrhoea, haemorrhagic necroses in several organs, renal failure, circulatory collapse and death after 6 to 14 days with a fatal oral dose of about 1 mg/kg b.w. (5-10 castor beans). Because of its destruction in the intestinal tract, ricin is approximately 1000-fold more toxic following parenteral administration or inhalation, than by the oral route. Oral LD50 values in rats and mice were 20 to 30 mg/kg b.w., and the corresponding intra peritoneal LD50 value for mice is 22  $\mu$ g/kg b.w. There are no data on chronic or reproductive toxicity, or genotoxicity of ricin. Crotin I showed LD50 i.p. values in mice of 20 mg/kg b.w.

The very limited data on acute toxicity in target animals comprise mainly information on castor bean products rather than on purified ricin. Amongst ruminants, cattle appear to tolerate higher intakes than sheep. In horses severe colic and death have been observed after a single dose of approximately 7-8 mg ricin/kg b.w. Toxic effects in pigs and birds have been reported as well as accidental poisonings in dogs with vomiting, depression and diarrhoea as the main clinical signs. No- or lowest observed adverse effect levels (NOAELs or LOAELs) for acute effects of ricin could not be identified for any of the animal species.

https://efsa.onlinelibrary.wiley.com/doi/pdf/10.2903/j.efsa.2008.726

LAURUS NOBILIS LEAF (OIL)

CAS NO: -

EC NO: -

Laurus nobilis L. is a large shrub belonging to the Lauracea family. Its leaves are widely used for food seasoning as well as in folk medicine. Various studies have demonstrated the antiproliferative, antifungal and antibacterial effects of Laurus nobilis, but no studies have investigated the genotoxic effect of the aqueous extract of the plant. The objective of this study was to analyze the genotoxic potential of an aqueous extract of leaves, using the Allium cepa assay and mouse peripheral blood cell micronucleus test. The results showed that the extract did not have any genotoxic activity, but cytotoxic activity was observed in the two experimental models used. The extract had an antiproliferative effect, detected through the reduction of the mitotic index and the polychromatic/normochromatic erythrocyte (PCE/NCE) ratio. The tests also demonstrated a large number of cells undergoing apoptosis and with nuclear abnormalities related to cell death processes. These results can be explained by the presence of phenolic compounds, saponins, flavonoids and alkaloids, detected in the phytochemical analysis of the extract. Therefore, the extract from L. nobilis in the form generally used by the population does not pose risks related to its genotoxic potential, and also contains components with apoptotic and antigenotoxic potential.

#### **REFERENCE:**

Mayara Christine Silva, Viviane Moreira de Lima, Laurus nobilis L.: assessment of the cytotoxic and genotoxic potential of aqueous extracts by micronucleus and Allium cepa assays, Braz. J. Pharm. Sci. 56 • 2020.

https://doi.org/10.1590/s2175-97902019000318302

### 9. Undesirable Effects and Serious Undesirable Effects

Not known or reported. Any adverse reactions and serious adverse effects will be reported. Any serious adverse effect will be notified to the Ministry of Health. If the supplier is a ware of costumer complaints the supplier must bring this to the attention of the safety assessor and submit this formulation for reassessment and notify the competent authorities of corrective actions taken.

#### 10. Information on the Cosmetic Product

The information contained in the reportare as follows:

- Certificate of Analysis or Specifications of Finished Product
- Certification of Analysis and Specifications of Ingredients

 Version: 1.0
 Form No: 102071

 Prep. Date: 08.09.2022
 RevisionDate: 8.09.2022

-Formulation of the Product

- Packaging Quality Certificate

-Stability Test report

- Physical and chemical test report

#### **B. COSMETIC PRODUCT SAFETY ASSESSMENT**

#### 1. Assessment Conclusion

The safety assessment report of this product is prepared for adults use. MoS>100 is found for raw materials. The calculation was performed assuming that dermal absorption is 100 %. With this worst case study, it is evaluated that the use of this raw material in this product is safe.

In addition to MoS calculations, the IFRA certificate of conformity provided by the manufacturer was also used in the safety assessment of this product. The perfume concentration (1%) in the product is below the maximum concentration that can be used according to the acceptance criteria set by IFRA for this category. (Class 9A, maximum utilization rate 5.00%). MoS>100 is found for perfume components.

The ingredients of the product are permitted ingredients for cosmetics. All raw materials are not toxic under normal or reasonably unforeseeable conditions of use at this concentration. The product does not contain prohibited substances listed in annexes of Regulation (EC) No. 1223/2009. Composition of the product complies with the requirements of the EU Cosmetic Regulations.

Based on all data available it can be assumed that the cosmetic product **DAPHNE SOAP** is safe for human health when used under normal or reasonably foreseeable conditions of use in accordance with Regulation (EC) No 1223/2009.

There are restrictions for SODIUM HYDROXIDE which is allowed in cosmetic products as pH adjuster when pH <11. Based on the fact, that Sodium hydroxide is consumed during the soap-making process and it is not contained in the final product, the restriction does not apply.

The list of ingredients is based on the ingredients that are used to make the soap.

Following review of the information provided for the above product and its ingredients, the product is considered safe for the intended application and complies with EC Regulation 1223/2009.

This safety assessment for human health is based upon information available at this date. Reviews of this assessment will be made as and when new information becomes available.

#### 2. Labelled Warnings and Instructions of Use

Warnings on the product label:

Avoid contact with eyes and mouth. In case of contact,

rinse thoroughly with plenty of water.

Application of the Product:

Before use, read

the instructions of your product at sopna.co, you can

access the site with QR code. Keep in a dry place

3. Reasoning

This report is prepared based on the Regulation (EC) No. 1223/2009 on cosmetic products and The SCCS's

Notes of Guidance for the Testing of Cosmetic Ingredients and Their Safety Evaluation 9th Revision 2015.

The Product is a body soap. Application area is the body area. Rinse-off Product. 100% use in cosmetic products

is safe.Attached information and documents (MSDS's, TDS's, , etc) and the references at the product

Microbiology, Stability and Free claim test results Safety information report is also used.

Physical-chemical specifications, microbiological data are acceptable.

All the ingredients Mos value is above >100. The product is safe to use as cosmetic product according to

cosmetic regulations. The margin of safety for ingredients which have no NO(A)EL value could not calculate.

The toxicological profile have been assessed for substances that missing NO(A)EL values, components in the

product has no risk to the consumers. This type of formulation has been in common usein cosmetics over many

years without any particular concerns. In the table the margin of safety of each of the ingredients used are

given. All the results contained in the report in section A reasoning that product is safe.

4. Assessor's Credentials and Approval of Part B

Name: Fatih KEÇELİ, RPh.,

Telephone and address of the safety assessor:

+905302391748

Esenevler Mah. Böğürtlen Sok. Cemal Bey Apart. 1-3 No:4

Ümraniye/İstanbul, TURKEY

**Proof of qualification of safety assessor:** 

Pharmacist,

**Graduated School :** Gazi University Faculty of Pharmacy

Master's Degree : Ankara University faculty of Pharmacy

Diploma attached.

Date and signature of safety assessor:

 Version: 1.0
 Form No: 102071

 Prep. Date: 08.09.2022
 RevisionDate: 8.09.2022