

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Argan Oil

Revision date: 06.09.2018

Product code: HL070

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Argan Oil

Master-Art.-No.

60896,60900,60904,60914,60923,60926,60928,60942

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

Vegetable oil for different applications

1.3. Details of the supplier of the safety data sheet

Company name: Henry Lamotte Oils GmbH

Street: Merkurstraße 47

Place: D-28197 Bremen

Telephone: +49 421 5239 46 0

Telefax: +49 421 5239 46 199

e-mail: m

Internet: w

Responsible Department: Quality Assurance and Development

1.4. Emergency telephone number: +49 421/52 39 46 -0 only during business hours**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements**2.3. Other hazards**

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
299184-75-1	Argan Oil			99-100 %
	-			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

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5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protection equipment.

6.2. Environmental precautions

No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Advice on storage compatibility

No special measures are necessary.

7.3. Specific end use(s)

Vegetable oil for different applications

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: liquid
Colour: light yellow - yellow
Odour: characteristic
pH-Value: not determined

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: >350 °C
Flash point: >200 °C

Flammability

Solid: not applicable
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

Not oxidising.
Vapour pressure: not determined
Density: 0,91 g/cm³
Water solubility: The study does not need to be conducted because the substance is known to be insoluble in water

Solubility in other solvents

not determined
Partition coefficient: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Additional information on tests**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

12.2. Persistence and degradability

Safety Data Sheet

according to Regulation (EC) No 1907/2006

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The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information**14.6. Special precautions for user**

No information available.

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

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Information according to 2012/18/EU
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water contaminating class (D):

awg - generally water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Further information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Seatons Avocado Oil

Origin

Avocado oil is produced from the fruit pulp of the ripe avocado pear (*Persea americana*), which is grown mainly in America and Africa. It is a rich green oil, which can be refined to a pale yellow oil with a mild characteristic odour and taste.

Characteristics and applications

Avocado oil is a fast penetrating oil, making it ideal for use as a base for a wide variety of personal care products such as bath lotions, moisturisers and soaps. This oil is highly moisturising and nourishes dry, dehydrated skin and can help to improve the skin's elasticity.

Range available

- Seatons organic avocado oil

Typical properties

Appearance/form	Golden/green liquid
Free fatty acid content	0 - 5%
Iodine value	64 - 95
Saponification value	180 - 205

Typical fatty acid profile

Palmitic C16	12 - 25%
Stearic C18	0.5 - 2%
Oleic C18:1	45 - 75%
Linoleic C18:2	5 - 15%
Linolenic C18:3	0.5 - 3%

Regulatory information

INCI name (PCPC)	Persea Gratissima (Avocado) Oil
CAS number	8024-32-6
EINECS number	232-428-0
REACH status	Exempt (Annex V.9)

Specifications, starting formulations and MSDS available on request



Non-warranty

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Lipovol® G



Lightweight, Silky & Nutrient-Rich Grapeseed Oil



PRODUCT: Lipovol® G

EINECS #: 287-896-9

INCI NAME: Vitis Vinifera (Grape) Seed Oil

CAS #: 8024-22-4

WHAT IS LIPOVOL® G?

Lipovol® G is a nourishing grapeseed oil – a rich natural source of Omega-6 (linoleic acid) – that provides key benefits for beautiful and healthy skin, hair and nails. This pure, high quality oil features high levels of lipids (triglycerides) comprised of polyunsaturated, monounsaturated and saturated fatty acids – including linoleic, oleic (Omega-9), palmitic and stearic. The oil also naturally contains phytosterols (mainly β -sitosterol) and carotenoids.

An essential fatty acid, linoleic acid is known to: play an important role in hydration, restoring the barrier function; have skin brightening and healing properties; and transform into γ -linolenic acid with anti-inflammatory and anti-microbial properties. Grapeseed oil is a crucial ingredient for the well-being of the skin and hair – linoleic acid deficiencies may lead to issues such as weak moisture barrier, clogged pores and hair loss. Linoleic acid can help treat skin conditions such as dryness, eczema, psoriasis and inflammation. Found naturally in the skin (cell membranes, sebum), oleic acid is known to have healing, regenerating, immune-supporting, and powerful absorption properties.

Lipovol® G is derived from the seeds of numerous varieties of grapes. Grapes have been used since ancient times, by Greek and Roman civilizations in wine-making. **Lipovol® G** is securely and sustainably sourced. Grapeseed oil is made with grape seeds that are a byproduct of the food and beverage industry (juice, wine). The oil is vegan and gluten-free.

KEY BENEFITS

- Lightweight, Silky Texture
- Fast Absorbing
- Rich in Vital Nutrients for Healthy Skin & Hair
- Moisturizing
- Smoothing, Softening & Radiance
- Instant Conditioning
- Emollience
- Repairing
- Soothing & Purifying
- High Shine

IDEAL FOR USE

- Skin Care
- Hair Care
- Makeup
- Bath & Body
- Baby Care
- Men's Care
- Nail Care
- Sun Care



TYPICAL PROPERTIES OF LIPOVOL® G

Appearance	Yellow/green liquid
Odor	Characteristic
Source	Grape Seed
Recommended Use Level	1-8% in formulation, up to 100% (alone or mixed with other products)



EMOLLIENTS

LIPOVOL® G Lightweight, Silky & Nutrient-Rich Grapeseed Oil

WHAT DOES LIPOVOL® G DO?

This multitasking plant oil delivers deep nourishment for smoother, softer, refreshed, more radiant skin and hair. In addition to conditioning and emollient properties, it offers hydration by replenishing lipids while helping seal in and retain essential moisture. **Lipovol® G** also works to: support skin repair, provide soothing effects, gently eliminate everyday impurities and maintain clear skin. The oil gives hair luster, and helps support healthy hair growth.

Grapeseed oil is known to have brightening, healing, anti-inflammatory and anti-microbial properties.

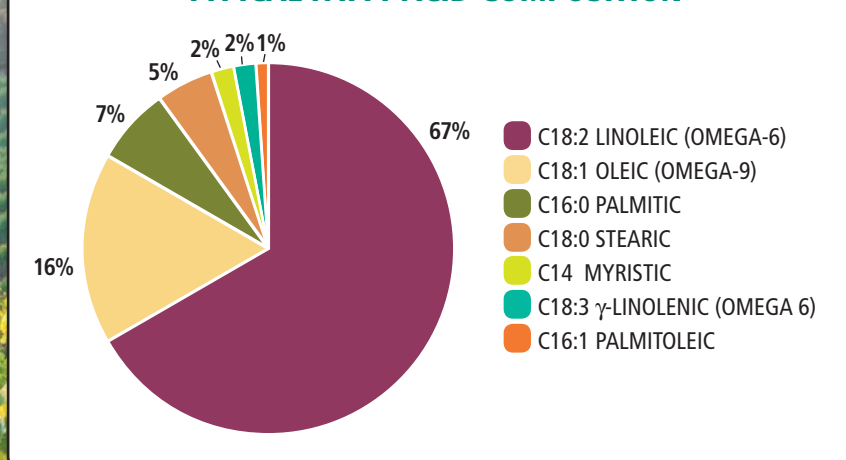
Lipovol® G offers a lightweight silky texture, absorbs easily with no greasy residue, and creates a high-gloss finish.

HOW CAN LIPOVOL® G BE USED?

Lipovol® G is ideal for all skin types, hair types and ages. It is the perfect nourishing treatment to help the face, body, lips, hair, scalp, nails and cuticles look and feel more beautiful and healthy. This incredible all-in-one product can be used head to toe – as a moisturizer or serum alone; as a booster mixed with other products before application; or as an easy-to-use ingredient for many types of formulas. It is an excellent massage oil and carrier to dilute essential oils.

Lipovol® G should be added into the oil phase of an emulsion with other oil phase ingredients. **Lipovol® G** should not be heated above 85°C for a prolonged period of time. This has the potential to cause discoloration. The addition of anti-oxidants, such as Vitamin E, is recommended to increase the shelf life of formulas containing natural oils.

TYPICAL FATTY ACID COMPOSITION



DATA

SKIN BRIGHTENING & LIGHTENING PROPERTIES

Results of *in vitro* studies*: Linoleic acid and oleic acid inhibit the production of melanin – ideal for helping reduce the appearance of hyperpigmentation.

*On murine melanoma cells.

HYDRATING & SOOTHING EFFECTS

Results of an *in vivo* study: A formula containing linoleic acid and ceramides improved hydration (water content, water loss) and alleviated psoriasis.

ANTI-MICROBIAL PROPERTIES & IMMUNITY SUPPORT

Results of *in vitro* studies: γ -linolenic acid (produced by the conversion of linoleic acid on the skin) inhibits growth of *Staphylococcus aureus* and *Propionibacterium acnes*. It was also shown to kill *Staphylococcus aureus*. *Staphylococcus aureus* (associated with inflammation, atopic dermatitis and acne) and *Propionibacterium acnes* (associated with acne) are bacteria found in stressed, inflamed and troubled skin. In addition to killing *Staphylococcus aureus*, oleic acid stimulates the production of human β -defensin (hBD-2) – a peptide involved in immunity that fights bacteria such as *Propionibacterium acnes**. *Western Blot analysis (on human sebocytes).

REGENERATING & ABSORPTION PROPERTIES

Results of *in vitro* studies*: Oleic acid is a component in phospholipids that are found naturally in the skin*. Phospholipids are key structural elements in cell membranes, needed to support the skin's natural cell function and renewal process. Easily absorbed into the skin's surface, oleic acid also enhances penetration for optimal delivery of active ingredients. *Tested on fetal human fibroblasts.

DATA REFERENCES

Garavaglia J, Markoski MM, Oliveira A, Marcadenti A. Grape Seed Oil Compounds: Biological and Chemical Actions for Health. *Nutr Metab Insights* 9:59-64, 2016

Sabir A, Unver A, Kara Z. The fatty acid and tocopherol constituents of the seed oil extracted from 21 grape varieties (*Vitis* spp.). *J Sci Food Agric* 92(9):1982-7, 2012

Fernandes L, Casal S, Cruz R, et al. Seed oils of ten traditional Portuguese grape varieties with interesting chemical and antioxidant properties. *Food Res Intern* 50(1):161-166, 2013

Assumpção CF, Nunes IL, Mendonça TA, et al. Bioactive compounds and stability of organic and conventional *Vitis labrusca* grape seed oils. *J Am Oil Chem Soc* 93:115-124, 2016

Cardoso CR, Souza MA, Ferro EA, Favoreto S Jr, Pena JD. Influence of topical administration of n-3 and n-6 essential and n-9 nonessential fatty acids on the healing of cutaneous wounds. *Wound Repair Regen* 12(2):235-43, 2004

Elias PM, Brown BE, Ziboh VA. The Permeability Barrier in Essential Fatty Acid Deficiency: Evidence for a Direct Role for Linoleic Acid in Barrier Function. *J Invest Dermatol* 74(4):230-3, 1980

Skolnik P, et al. Human essential fatty acid deficiency: treatment by topical application of linoleic acid. *Arch Dermatol* 113(7):939-41, 1977

Downing DT, Stewart ME, Wertz PW, Strauss JS. Essential fatty acids and acne. *J Am Acad Dermatol* 14(2 Pt 1):221-5, 1986

Aravitskaia E, et al. The role of topical dermocosmetics in acne vulgaris. *J Eur Acad Dermatol Venereol* 30(6):926-35, 2016

McCusker MM, Grant-Kels JM. Healing fats of the skin: the structural and immunologic roles of the omega-6 and omega-3 fatty acids. *Clin Dermatol* 28(4):440-51, 2010

Kapoor R, et al. Gamma linolenic acid: an antiinflammatory omega-6 fatty acid. *Cur Pharm Biotechnol* 7(6):531-4, 2006

Sales-Campos H, Souza PR, Peghini BC, da Silva JS, Cardoso CR. An overview of the modulatory effects of oleic acid in health and disease. *Mini Rev Med Chem* 13(2):201-10, 2013

Ando H, et al. Linoleic acid and alpha-linolenic acid lightens ultraviolet-induced hyperpigmentation of the skin. *Arch Dermatol Res* 290(7):375-81, 1998

Liu M, Li X, Chen XY, Xue F, Zheng J. Topical application of a linoleic acid-ceramide containing moisturizer exhibit therapeutic and preventive benefits for psoriasis vulgaris: a randomized controlled trial. *Dermatol Ther* 28(6):373-82, 2015

Desbois A, et al. Antibacterial activity of long-chain polyunsaturated fatty acids against *Propionibacterium acnes* and *Staphylococcus aureus*. *Mar Drugs* 11(11):4544-57, 2013

Chen CH, Wang Y, Nakatsuji T, Liu YT, Zouboulis C, Gallo R, Zhang L, Hsieh MF, Huang CM. An innate bactericidal oleic acid effective against skin infection of methicillin-resistant *Staphylococcus aureus*: a therapy concordant with evolutionary medicine. *J Microbiol Biotechnol* 21(4):391-9, 2011

Speert DP, Wannamaker LW, Gray ED, Clawson CC. Bactericidal effect of oleic acid on group A streptococci: mechanism of action. *Infect Immun* 26(3):1202-10, 1979

Nakatsuji T, Kao MC, Zhang L, Zouboulis CC, Gallo RL, Huang CM. Sebum free fatty acids enhance the innate immune defense of human sebocytes by upregulating beta-defensin-2 expression. *J Invest Dermatol* 130(4):985-94, 2010

Rosenthal MD. Selectivity in incorporation, utilization and retention of oleic and linoleic acids by human skin fibroblasts. *Lipids* 15(10):838-48, 1980

Engelbrecht TN, Schroeter A, Hauss T, Neubert RH. Lipophilic penetration enhancers and their impact to the bilayer structure of stratum corneum lipid model membranes: neutron diffraction studies based on the example oleic acid. *Biochim Biophys Acta* 1808(12):2798-806, 2011



EMOLLIENTS

LIPOVOL® G Lightweight, Silky & Nutrient-Rich Grapeseed Oil



All data, including the formulations and procedures discussed herein, to the knowledge of Vantage Specialty Chemicals, Inc. (Vantage), are believed to be correct, reliable and accurate. Please note; however, that Vantage does not warrant or guarantee any accuracy, reliability or completeness of the information contained herein. It is the user's responsibility to determine the suitability and completeness of such information for the user's particular use (including performing any necessary confirmatory tests). Vantage is not responsible or liable for any loss or damage that may occur from the use of this information, nor do we warrant against any patent infringement. Nothing contained herein shall be construed as providing any permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.

EMOLLIENTS

Seatons Sweet Almond Oil

Origin

Sweet almond oil is the fixed oil extracted from the kernels of almonds (*Prunus amygdalus dulcis*), which are commonly grown in Mediterranean countries and the west coast of America. It is also known as almond oil. The kernels are mechanically pressed to yield 40-50% oil. This oil can then be refined to give a pale yellow, viscous oil with a characteristic mild odour and taste.

Characteristics and applications

Sweet almond oil is rich in oleic and linoleic fatty acids and contains vitamins A, B1, B2 and B6 as well as a small amount of vitamin E. It is widely used in personal care formulations as a skin conditioning agent due to its penetrating, smoothing, softening and moisturising properties. As it can protect and nourish a wide range of skin types and can calm irritations caused by eczema it is an excellent choice of ingredient for moisturising preparations. The oil is also reported to be particularly good at treating dry, brittle nails. It also blends well with many other oils and is a good general lubricating oil thus making it ideal for use as a massage oil and a carrier oil for aromatherapy.

Range available

- Seatons refined sweet almond oil
- Seatons organic sweet almond oil

Typical properties (refined grade)

Appearance/form	Pale yellow liquid
Acid value	3 max
Iodine value	93 - 105
Saponification value	190 - 200
Required HLB value	7

Typical fatty acid profile

Palmitic C16	3 - 9%
Stearic C18	0 - 3%
Oleic C18:1	60 - 70%
Linoleic C18:2	20 - 30%
Linolenic C18:3	0 - 2%



Regulatory information

INCI name (PCPC)	Prunus Amygdalus Dulcis (Sweet Almond) Oil
CAS number	8007-69-0
EINECS number	273-313-5
REACH status	Exempt (Annex V.9)

Specifications, starting formulations and MSDS available on request

Non-warranty

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Shea Butters

Cetiol® SB 45 and Cegesoft® SBE

Shea (or Karité) butter from the seeds of the wild growing *Butyrospermum Parkii* tree from West/Central Africa has become a famous emollient in the personal care industry. Shea butter is an approved replacement for cacao butter in the chocolate industry where it has a favorable re-crystallization behavior – which is also an important consideration for cosmetic emulsions.

Performance profile

- Soft and pleasant long term skin feel
- Caring and moisturizing effect with a weak gloss
- Soothing properties due to a high content of unsaponifiable matter
- Support of UV protection
- Improvement of hair gloss
- High content of triglycerides, rich in oleic and linolenic acids
- Excellent odour and colour
- Food grade quality



Cetiol® SB 45 is unique because it is a special fraction of the natural Shea butter characterized by a higher melting point (42-46°C) and a higher content of unsaponifiable matter (6-13%). In addition to its excellent performance in skin care formulations, we also recommend it for achieving hair gloss: Cetiol® SB 45 is the only tested triglyceride with a high impact on gloss improvement.

Cegesoft® SBE is a highly concentrated form of Shea butter where the unsaponifiable matter consisting of valuable tocopherols and cinnamic acid esters from triterpene alcohol is concentrated up to four times (30-40%) – resulting in considerably higher active levels.

Sustainability benefits Cetiol® SB 45 Cegesoft® SBE

- 100% derived from renewable feedstocks
- Recommended for natural / organic formulation concepts
- Cetiol® SB 45 is approved by and Cosmos
- Does not contain preservative
- Non-GMO



Brief Overview Shea Butter

INCI Name:

Butyrospermum Parkii Butter (EU)
Butyrospermum Parkii (Shea Butter)
(PCPC)

Appearance:

White to off-white semi solid wax
Dosage: 1-100%

Formulations

- Golden Wedding Anti-Wrinkle Cream (SC-FR/05/103/12) with SBE
- White Chocolate Body Butter (SC-GB/06/01/112B) with SB 45
- Golden Body Butter (US-04-028-14h.) with SB 45

Fields of Application

- Face care
- Body care
- Sun care
- Baby care
- Hair care
- Skin cleansing

View further formulations at
www.ulprospector.com

Impart an elegant skin feel

PLANTASENS® OLIVE SQUALANE



High quality
Squalane.
Certified 100%
olive source



PLANTASENS® OLIVE SQUALANE



Renewable, natural
olive source



Exceptional
silky after-feel

Plantasens® Olive Squalane is an exceptional natural emollient that can be used in a wide range of cosmetic applications, particularly in upscale, luxury products. This clear and odorless oil is completely derived from a renewable source. Its 100% olive authenticity is proven by the $\Delta^{13}C/^{12}C$ isotope analysis.

ADVANTAGES

- 100% olive origin
- Soft and conditioned skin without greasy after feel
- Highly stable against oxidation

FEATURES

- Certified olive origin by $\Delta^{13}C/^{12}C$ isotope analysis
- Obtained from hydrogenation of Olive Squalene
- Non-polar emollient of natural origin
- Compatible with most cosmetic ingredients
- Ecocert® approved

APPLICATIONS

- Hair care
- Body care
- Face care
- Sun care



DESCRIPTION

INCI Declaration	Squalane
Olive Origin	< -27,8
Test Method	$\Delta^{13}C/^{12}C$ Isotope Analysis
Saponification value	2,0 max
Assay Squalane, %	93,0 min.
Odor	Odorless
Color	Colorless
Purification technique	Low temperature chromatography
Appearance	Transparent oil
Shelf Life	24 months in original unopened packaging

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Safety Data Sheet

according to Regulation (EC) No 1907/2006

Aloe Vera Gel 10:1

Revision date: 29.03.2018

Product code: 60322

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Aloe Vera Gel 10:1

Further product codes

60323

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

Food, Cosmetics

1.3. Details of the supplier of the safety data sheet

Company name: Henry Lamotte Oils GmbH

Street: Merkurstraße 47

Place: D-28197 Bremen

Telephone: +49 421 5239 46 0

Telefax: +49 421 5239 46 199

e-mail: m

Internet: w

Responsible Department: Quality Assurance and Development

1.4. Emergency telephone number: +49 421/52 39 46 -0 only during business hours**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements**2.3. Other hazards**

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous components**

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
94349-62-9	Aloe Vera Extrakt			>99 %
	305-181-2			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

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5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protection equipment.

6.2. Environmental precautions

No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special measures are necessary.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed.

Advice on storage compatibility

No special measures are necessary.

Further information on storage conditions

Store at temperatures not exceeding 15 °C/59 °F. Keep cool.

7.3. Specific end use(s)

Food, Cosmetics

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

To date, no national critical limit values exist.

8.2. Exposure controls**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic
pH-Value:	2,5-4,6

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	>100 °C
Flash point:	not determined

Flammability

Solid:	not applicable
Gas:	not applicable

Lower explosion limits:	not determined
Upper explosion limits:	not determined

Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
----------------------------	----------------

Oxidizing properties

Not oxidising.

Vapour pressure:	not determined
Density (at 20 °C):	1,01 g/cm ³
Water solubility:	easily soluble

Solubility in other solvents

not determined

Partition coefficient:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

9.2. Other information

Solid content:	not determined
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SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

none

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Additional information on tests**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

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The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Contaminated packaging**

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information**14.6. Special precautions for user**

No information available.

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

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Information according to 2012/18/EU
(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water contaminating class (D):

awg - generally water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

Phytextcell Green Tea

01/11

Art. No. NA34512

INCI Name: Glycerin, Butylene Glycol, Water, Camellia Sinensis Leaf Extract

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

Name of the plant:

Latin:	Camellia sinensis
English:	Green Tea
French:	Thé vert
German:	Grüner Tee

Plant material: leaves

Description:

Green Tea belongs to the Theaceae plant family. Originally, green tea was found in South China, Assam and Cambodia but today it is grown in plantations in India, Ceylon, Indonesia, Japan, East Africa, South America, in parts of Turkey, Pakistan and Iran.

New pharmacological experiments have shown that tannins from green tea leaves have anti-microbial, anti-inflammatory and radical scavenging characteristics. Green tea extracts are said to inhibit the formation of plaque in that they interfere with the metabolism of Streptococcus mutans.

The main components of green tea are alkaloids (e.g. caffeine), polyphenols (so-called tannins), flavonoids (e.g. rutin, quercitrin), gallic acid, saponins, carotinoids, amino acids, volatile components and minerals with astounding levels of fluorides, in particular potassium fluoride. The tannin content of green tea leaves is said to be between 10 and 25 %. The tannins consist mainly of (+) catechin, (-) epicatechin, (-) epigallocatechin and (+) galocatechin.



Properties of the plant:

Stimulant, lipolytic
Radical scavenger, vitamin P
Astringent, antioxidant

Relation to the actives of the plant:

Caffein, Theophyllin
Flavonoids (Quercetin, Rutin)
Catechin Tannins (-)-Epicatechin-3-O-Gallate

Cosmetic applications:

Slimming treatment, cosmetics for tired skin, hair care to improve gloss and strength

Recommended level of use:

2 - 7 %

Content of active components:

(-)-Epicatechin-3-O-Gallate approx. 700 ppm

Phytextcell Green Tea

01/11

Art. No. NA34512

Benefits of Phytextcell plant extracts:

- Unique microwave technology results in extracts which are paler in colour and free from organic solvent residues and preservatives
- Longer shelf life; consistent colour / odour / content of active tracer substances over more than 12 months

Specifications:

	Minimum Value	Maximum Value
Appearance	clear liquid	
Colour	brown	dark red brown
Odour	characteristic	
Specific Density (20°C)	1.145	1.175
Refraction Index (20°C)	1.425	1.455
pH Value (20°C; 10% in dist. water)	4.5	6.5
(-)-Epicatechin-3-0-Gallate	600 ppm	99999 ppm
Total microbial count		
Bacteria		< 100 cfu / ml
Moulds and yeasts		< 10 cfu / ml

Extraction Vehicle:

Glycerin, Butylene Glycol, Water

Preservation:

none

Antioxidant:

none

Storage:

Between 15-25°C,
dark in closed containers

Shelf Life:

When stored accordingly,
stable for 24 months

INCI Name:

Glycerin,
Butylene Glycol,
Water
Camellia Sinensis Leaf Extract

CAS-No.:

56-81-5
107-88-0
7732-18-5
84650-60-2

EINECS No.:

200-289-5
203-529-7
231-791-2
283-519-7

Special Note: The plants used for Phytextcell Green Tea have not been organically cultivated.

This data sheet replaces the earlier version dated 06/98, 09/99, 12/00, 07/04, 05/06, 05/09.

This extract is based on a **product of nature** which is subject to natural variations. However, this has no influence on the safety of the product or its suitability for use.

Above mentioned specifications are based on our latest information. They do not release the buyer from performing a quality check. No legally binding promise regarding the suitability of the product for a specific use may be derived. Freedom from patent restrictions must not be assumed.

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Care
Creations™



Biophytex™

A booster of microcirculation to
improve evenness of skin tone

Beauty Creations
The Passion for Beauty

**BASF**
The Chemical Company

Biophytex™

Visibly improved skin complexion and a younger, healthier appearance

Skin and microcirculation: a healthy complexion by stimulation of the peripheral blood flow

Insufficient microcirculation and capillary fragility are common phenomena that can lead to various visible and perceivable consequences in the skin. Due to the permeability of the blood capillaries, blood and hemoglobin can leak out and stagnate or pool in the surrounding tissue (also called blood stasis). This can give a dark hue to the skin, especially in those areas where the skin is thin, for example under the eye. When the capillary walls become damaged or are fragile, the capillaries can become dilated, making them more visible at the surface, such as in the case of spider veins (also known as couperose).

In addition slow peripheral blood circulation may lead to inadequate elimination of waste products from cell metabolism from the surrounding tissue, puffiness etc...

These conditions can be hereditary, but they can be aggravated by extrinsic factors such as:

- prolonged sun or sun bed exposure. UV and IR irradiation increase the dilation of blood vessels,
- sudden temperature changes,
- exposure to extreme climatic conditions,
- hormonal influences (pregnancy and menopause),
- lifestyle; alcohol consumption, stress, lack of sleep, smoking.

The two main visible consequences are:

- **spider veins** or couperose, a chronic skin condition, sometimes accompanied by local inflammation, leading to esthetically unpleasing facial redness (either diffuse red blotches or a visible network of dilated capillaries = telangiectasia).
- **dark circles**, dark 'shadows' under the eyes resulting in an uneven and unhealthy looking complexion.

In some cases these visible effects are accompanied by skin irritation or discomfort, such as a feeling of tension and local warmth, especially in the case of sensitive skin. BIOPHYTEX™ is a strengthener of blood vessels, able to decrease the permeability of capillaries and to reinforce their resistance, thereby reactivating the microcirculation. As a result the appearance of red blotches and spider veins is reduced and dark circles under the eyes are diminished. The overall skin complexion and skin color are more homogeneous, giving a younger and healthier appearance. In addition, skin comfort, especially of sensitive skin, is increased.

Definition / Composition

Biophytex™ LS 9832 is a synergistic complex of yeast extract (*Saccharomyces cerevisiae*) and extracts/derivatives of 5 plants:

	Anti-inflammatory	Stimulation of microcirculation	Soothing
Butcher's broom (<i>Ruscus aculeatus</i>)	+ Saponosides	++ Saponosides	
Hydrocotyle (<i>Centella asiatica</i>)	+ Flavonoids		+
Marigold (<i>Calendula officinalis</i>)			Flavonoids
Horse Chestnut (<i>Aesculus hippocastanum</i>)	** Flavonoids Saponosides (escine)	** Flavonoids Saponosides (escine)	+ Flavonoids Saponosides (escine)
Saccharomyces cerevisiae			+
Liquorice (<i>Glycyrrhiza glabra</i>)	*** Saponosides Glycyrrhizic acid glycyrrhizic acid		+

- Butcher's broom (*Ruscus aculeatus*) root extract,
- Hydrocotyle (*Centella asiatica*) leaf extract,
- Marigold (*Calendula officinalis*) flower extract,
- Horse Chestnut (*Aesculus Hippocastanum*) seed extract,
- Ammonium glycyrrhizate from licorice (*Glycyrrhiza glabra*) roots.

Rich in saponosides and flavonoids, Biophytex™ protects the blood capillaries, reinforces their tonicity and has an overall skin soothing, calming effect.

Skin benefits

Thanks to the synergistic action of its different components, Biophytex™ improves skin problems linked to capillary fragility and reduced microcirculation on the face in general and in the under eye area specifically.

This effect is obtained by:

- reinforcement of the capillary walls,
- improvement of microcirculation.

Resulting in:

- reduction of spider veins,
- reduction of dark circles,
- skin soothing, calming.

Cosmetics use

Face care applications:

- skin care for reduction of spider veins/couperose,
- care for sensitive/reactive skin,
- aftershave products.

Eye contour applications:

- products for the reduction of dark circles,
- anti-aging eye care,
- concealers.

Dosage / Solubility / Mode of incorporation

1. Dose of use: 2 - 5%

2. Solubility: soluble in water, insoluble in oils and fats.

3. Mode of incorporation: Biophytex™ must be introduced in the finishing process below 50°C or at room temperature for cold processing.

Optimal pH: 5 – 7.

Analytical characteristics

1. Aspect: amber liquid with a weak odor.

2. Specifications: upon request.

3. Preservatives: none.

Tolerance

Good.

Efficacy

Efficacy tests hereafter.

Storage

In its original packaging, at 15 - 25°C.

INCI name

Biophytex™ LS 9832: Water (and) Butylene Glycol (and) Panthenol (and) Escin (and) Glycerin (and) Ruscus Aculeatus Root Extract (and) Ammonium Glycyrrhizate (and) Centella Asiatica Extract (and) Hydrolyzed Yeast Protein (and) Calendula Officinalis Flower Extract

Anti-couperose (clinical test)

Aim

To evaluate the anti-couperose/reduction of spider veins effect of a cream containing 3% Biophytex™ in comparison to a placebo cream, on 8 female volunteers having couperose on the cheeks and visible telangiectasias.

Protocol

Double blind study during 2 weeks, randomized applications twice a day (morning and evening) after washing of the face of:

- placebo cream on one half of the face,
- cream containing 3% Biophytex™ on the other half of the face.

Before and after treatment:

- semi-quantitative clinical evaluation by a dermatologist of the intensity of erythrosis (redness) and the number of telangiectasias (semi quantitative scale: 0 = none to 6 = very high),
- visualization of the superficial micro-circulation by videomicroscopy and quantification of the number of visible capillaries.

Results

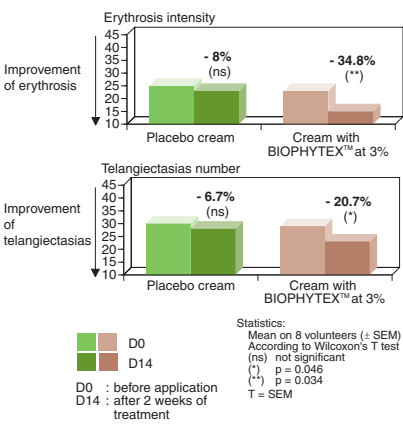


Fig. 1 – Semi-quantitative evaluation by a dermatologist.

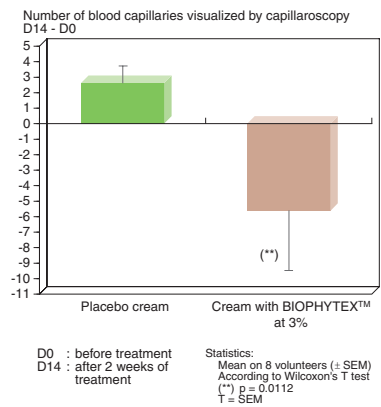


Fig. 2 – Number of blood capillaries visualized by capillaroscopy and measured by image analysis.



Conclusion

The application of a cream containing 3% Biophytex™ on the face for 2 weeks has significantly and visibly improved the aspect of the skin: micro-vessels are less visible; the skin color is more uniform. The treatment has well decreased the signs of skin fragility and irritability.

Anti-eye dark circle effect (clinical test)

Aim

To evaluate the anti-dark circle effect of a cream containing 3% Biophytex™ in comparison to a non-treated side.

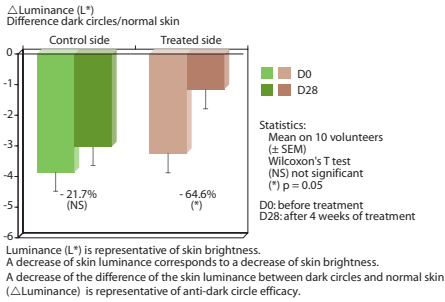
Protocol

Test carried out in double blind under dermatological control on 10 female volunteers with clearly visible dark circles below the eyes.

Application of a cream containing 3% Biophytex™ twice a day (morning and evening) during 4 weeks on one half of the face chosen at random by each volunteer. The non-treated side corresponds to the control side.

The anti-dark circle effect was evaluated quantitatively by chromametry and by digital photography.

Results



After 4 weeks of treatment on the right side and without treatment on the left side

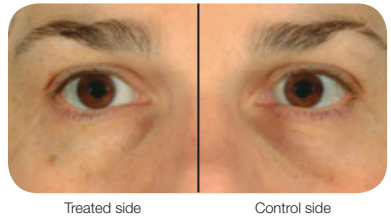


Fig. 3 – Difference of the luminance dark circle skin / normal skin.

Conclusion

After 4 weeks of treatment of the eye contour zone with a cream containing 3% Biophytex™, dark circles have significantly decreased: the under eye area is smoother and has a lighter and more homogeneous color. The general appearance of the face is fresher, healthier and more relaxed.

Skin soothing (clinical test)

As microcirculation disorders are more critical in the case of sensitive skin (skin redness is often linked to a skin discomfort such as local warmth and stinging sensations), we have evaluated the efficacy of Biophytex™ on volunteers with sensitive skin.

Biophytex™ has a dual activity. It acts as booster of microcirculation and as soothing agent for sensitive skin.

Aim

To evaluate the soothing effect of an emulsion with 5% Biophytex™ in comparison to before treatment on dry and sensitive skin.

Protocol

Panel of 15 female volunteers, between 30 and 50 years old, with dry and sensitive skin especially towards climatic conditions.

Bi-daily application of an emulsion with 5% Biophytex™ on the face, including eye contour, during 3 weeks.

Subjective evaluation of skin parameters before and after treatment by the volunteers.

Stinging test with 5% lactic acid before and after the application period, to evaluate the degree of skin reactivity (Frosh and Kligman lactic acid stinging test).

Results

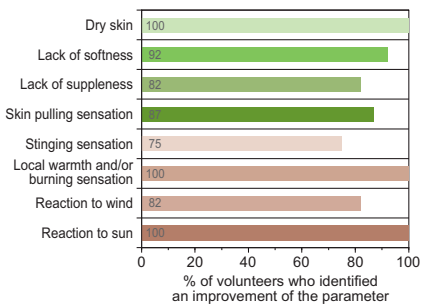


Fig. 4 – Subjective evaluation of the volunteers.

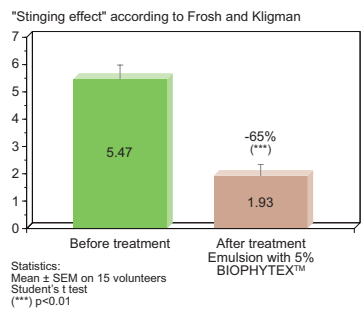


Fig. 5 – Local soothing effect of Biophytex™, measured by lactic acid test according to Frosh and Kligman.

Conclusion

The emulsion with 5% BIOPHYTEX™ provides a good improvement of skin tolerance, and increases skin moisturization and suppleness.

As a result of the treatment of the skin with the emulsion containing 5% Biophytex™, the intensity of the stinging reaction after application of lactic acid was decreased by 65%. Positive results were obtained with 94% of the volunteers.

General conclusion

Biophytex™ confirmed its value as a booster of microcirculation and as a skin tolerance enhancer.

Above tests have shown that the negative effects of poor microcirculation in the skin are reduced: spider veins and red blotches are decreased, dark circles are diminished and overall skin complexion appears more homogeneous.

Reactive and sensitive skin is perceivably soothed and comforted, resulting in an even and healthy skin tone.

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The Chemical Company

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