

1. Identification of the substance and of the company

Product name	Sesame seed oil cold pressed
French product name	Huile de sesame vierge
INCI Name	Sesamum indicum seed oil
Extraction method	Cold pressed and decanted
Quality	100% pure and natural
Application	Cosmetics, skin care
Supplier	SOPREEF
Address	BP 53, Sokone, Sénégal sopreef@vivre durable.net
Enterprise registration	SN FTK 2008 B 2008

2. Hazard Identification

Not hazardous according to EU-regulation

Eye contact	No known hazard
Skin contact	Can cause allergies A 24h application test in the fold of the elbow is recommended before use
Ingestion	Edible oil
Inhalation	No known hazard

3. Composition/Information on ingredients

INCI	Sesamum indicum seed oil
CAS	8008-74-0
EINECS	232-370-6
Restrictions	N/A
Status	Fixed oil
Origin	Senegal
Functions	Emolient, Skin care, Hair conditioner, Masking agent
Uses	Skin care, Hair care, Massage

4. First aid measures

Eye contact	Wash thoroughly with copious amount of water for at least 15 minutes. Seek medical advice if symptom persists.
Skin contact	Not known as dangerous Eventually wash with soap and water- get medical attention if any irritation
Ingestion	Not considered as dangerous. Edible quality. If ingested in large quantities, seek medical attention if discomfort is encountered.
Inhalation	Remove victim to fresh air

In case of doubt or if irritation and symptoms persist, seek medical advice.

5. Fire Fighting Measures

Extinguishing media recommended:

Suitable	Carbon dioxide dry powder or foam, sand.
Unsuitable	Water (can help spread the flame).
Fire protection	Keep away from, and avoid contact with, flames and sparks. Do not smoke
Extinguishing procedures	Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6. Accidental Release Measures

Personal precautions	Be careful of slipping after spill or leak.
Prevention	Contain and absorb leaks with non-combustible absorbent materials, such as sand, soil, vermiculite and diatomaceous earth in the barrels for waste disposal. Contain spillage with sawdust. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.
Environment protection	Do not allow to enter drains of water sources.
Cleaning up methods for spillages	Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Clean with hot water and detergents. Do not use solvents. Observe state, federal and local disposal regulations.

7. Handling and storage

Handling	Use only equipment resistant to vegetable oils, avoid leaks and ensure it does not soak into the floor Apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Avoid static discharges.
Storage	Keep in tightly sealed containers, in an inert atmosphere and away from light, heat and moisture. Keep air contact to a minimum Keep away from and avoid contact with flames, sparks or strong oxidizing agents

8. Exposure Control/Personal protection

Respiratory protection	No special measures under normal use
Hand protection	No special measures under normal conditions.
Eye protection	Safety glasses if there is a risk of splashing
Other protective equipment	Work clothing, mask and safety shoes
Work/hygiene practices	Wash hands with soap & water after handling.

9. Physical and chemical properties

Appearance	Oil
Aroma	Typical
Colour	Yellow to light brown
Specific gravity	0.915-0.924 g/mL at 20 °C
Water solubility	Insoluble
Acid value	<2 mg KOH/g oil
Peroxide value	<4 meq peroxides O ₂ /kg oil
Iodine value	103-106 g I ₂ /100g
Saponification value	188-198 mg KOH/g oil
Melting point/Freezing point	-5 °C (starts crystallizing at 10°C)
Smoke point	N/A
Flash point	255°C
Components	Main fatty acids are Linoleic (35-50%) and Linolenic (35-50%) acids. Contains sesamol (traces), sesamin (0.4-1.1%) and sesamolins (0.3-0.6%)

10. Stability and reactivity

Reactivity	No significant reactivity hazard
Chemical stability	Sensible to oxidation, can go rancid on exposure to excessive air and heat. Store in a fresh place.
Shelf life	> 18 months
Possibility hazardous reactions	Hazardous polymerization will not occur
Conditions to avoid	Avoid strong acids, alkali, oxidizing agents or heat.
Decomposition products	N/A

11. Toxicological Information

Contains no substances classified as dangerous according to Directive 1272/2008

Acute oral toxicity	Sesame oil was on the market as a food or food ingredient and consumed to a significant degree before 15 May 1997. Thus its access to the market is not subject to the Novel Food Regulation (EC) No. 258/97.(EUROPA, 1997).
Dermal and eye irritation	Allergic reactions to sesame seeds or sesame oil may cause anaphylaxis Experiments have shown that body oil containing 66.55% and massage oil containing 32% sesame seed oil do not induce skin sensitization (Wilbur Johnson and alt, 2006 and 2011).
Carcinogenicity, Mutagenicity	Not identified as a carcinogen by the International Agency for Research on Cancer (WHO 2014); is not on the California Proposition 65 list of known carcinogens (Cal-EPA 1997); and does not appear on the Toxics Release Inventory (TRI) Basis of OSHA Carcinogens (US EPA 2015) Considered to be non-mutagenic.

12. Ecological information

No ecotoxicological testing known. Water insoluble.

Toxicity	Not toxic to insects and mites
Biodegradability	Biodegradable and unlikely to accumulate in aquatic environment. Discharge of large quantities into aquatic environment may kill fish and other organisms by oxygen depletion
Precautions	Prevent surface contamination of soil, ground & surface water

13. Disposal Consideration

Do not pour into drains or into water sources.

Incineration	Incinerate in accordance with local regulations.
Disposing of used containers	Observe the local regulations

14. Transport Information

Not classified as hazardous for transport

- ADR/US DOT Shipping description (Land) : Not regulated
- IMO-IMDG Shipping description (Sea) : Not regulated
- ICAO/IATA Shipping description (Air) : Not Regulated
- RID Shipping description (Rail) : Not regulated

15. Regulatory Information

This product does not meet the definition of a hazardous substance or preparation as defined by the European Union Council Directives 67/548/EEC, 1999/45/EC, 1272/2008/EC and subsequent Directives

According to Directive 88/379/EEC :

Hazards	N/A
Symbols	N/A
Risk phrases	N/A
Safety phrases	N/A

16. Other information

Properties

Sesame oil is a key oil used in Ayurvedic medicine

Sesamol is a natural powerful antioxidant and anti-inflammatory phenol. It has anti-carcinogenetic property. It is considered as a promising drug in normal as well as delayed wound healing processes. It's use as therapeutic agent for central nervous system derangements, including memory deficits, has been studied.

Sesamol, sesamin and sesamolin respond distinctively in colorimetric tests and allow the detection of small amounts of Sesame Oil in other oils even after hydrogenation.

These compounds are also largely responsible for the synergistic effect of Sesame Oil with pyrethrum insecticides

Sesamol is generated from sesamolin by bleaching, hydrogenation, or other conditions of processing or storage. Sesamol may be removed from Sesame Oil by bleaching or deodorization

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Sources

European Commission database for information on cosmetic substances and ingredients
<https://ec.europa.eu/growth/tools-databases/cosing/>

Cosmetics Ingredients Selector
<https://cosmetics.specialchem.com/inci-names>

INCI Beauty
<https://incibeauty.com/>

European chemical agency
<https://echa.europa.eu/home>

Commission des normes, de l'équité, de la santé et de la sécurité du travail du Canada
<https://reptox.cnesst.gouv.qc.ca/>

Final Report on the Safety Assessment of Sesame Oil

Journal of the American college of toxicology - Volume 12, Number 3, 1993
<https://journals.sagepub.com/doi/pdf/10.3109/10915819309140647>