



Material Safety Data Sheet

1. Product and Company Identification

Product name	Lovage root oil
Botanical name	Levisticum officinale Koch
INCI name	Levisticum officinale Oil
Product use	Aromatic ingredient
Company information	SAFRANAROMATIC SARL 9 AVENUE DU VIGAN , 30440 SUMENE, France TEL. : 0033 (0)6 87 31 14 61 email : safranaromatic@free.fr
Emergency Number (Orfila)	+33 145 42 59 59

2. Hazards identification

Signal Word: Danger

Classification	Pictograms	Hazards statements
Skin Sens. 1 (SS 1)	 SGH07	H315: Causes skin irritation
Asp. Tox. 1 (AH 1)	 SGH08	H304 : May be fatal if swallowed and enters airways

Precautionary statements

P301+P310	: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P501	Dispose of contents/container in accordance with local regulations

3. Composition/Information on ingredients

Kind of product	Essential Oil, Natural Complex substance (NCS, 100% pure and natural).				
N° CAS (TSCA - USA)	8016-31-7				
N° EINECS (EC)	284-292-7				
N° EINECS CAS	84837-06-9				
N° FEMA	2651	N° COE	261	FDA	172.510

Hazardous or Allergens ingredients (in accordance EC Directives, IFRA and EFFA Code of Practice)

Composant	n°CAS	n°EINECS	Classification and hazards statements	limit max
Alpha and Béta Pinene	80-56-8 127-91-3	201-291-9 204-872-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Sens. 1, H317; Aquatic Acute 1, Aquatic Chronic 1, H410	2%
Phtalides			Acute Tox. 4, H302; Skin Sens. 1, H317	75%

4. First-Aid measures

Skin contact	<ul style="list-style-type: none"> - Wash contaminated skin with copious amounts of water and soap. Remove contaminated clothes and wash them before reuse. - Summon a physician, if an irritation appears.
Eye contact	<ul style="list-style-type: none"> - Rinse immediately with copious amounts of water for at least 10 minutes – open eyelids forcibly. - Summon a physician, if an irritation appears.

Ingestion	- Rinse mouth with water. - Summon a physician immediately.
Excessive Inhalation	- Remove to fresh air environment. - Summon a physician immediately.

5. Fire-fighting measures

Suitable extinguishing media	- carbon dioxide, dry powder, foam.
Specific hazards	- avoid exposure to vapors. If necessary, use appropriate respirator.

6. Accidental release measures

Personal precautions	- wear protective gloves, do not smoke, keep away sources of ignition. Avoid skin contact and inhalation of vapors. Ventilate well the spilled area.
Environmental protection	- do not allow to enter drains or waterways.
Methods for cleaning up	- wear gloves. - collect spills with an absorbent material and clean up with a detergent. Do not use any solvents. Hand over all used materials to waste removal.

7. Handling and storage

Handling

Technical measures	- handle containers with care. Provide good ventilation. Avoid contact with skin, eyes and clothes.
Suitable materials	- stainless steel, aluminum, glass.
Unsuitable materials	- plastic and PVC.

Storage

Storage conditions	- dry, cool and well ventilated places. - keep containers tightly closed. - keep away from sun any source of heat.
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8. Exposure controls/Personal protection

Engineering Measures	- see 7.
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Personal protective equipment

Do only handle in well-ventilated areas. Wear gloves, glasses and adapted clothes.

9. Physical and chemical properties

Color	yellow to dark brown
Form	liquid
Odor	characteristic
Density	between 1,010 and 1,080 (20°C)
Refraction Index	between 1,535 and 1,558 (20°C)
Angular rotation	between -1° and +5° (20°C)
Solubility	water: not soluble alcohol: 1 : 1,5 vol. Ethanol 85% (20°C)
Flash point	≥ 100°C

10. Stability and reactivity

Stability	- stable product in adapted storage conditions.
Conditions to avoid	- do not heat to temperatures of more than 150°C. - do not expose to sun.

11. Toxicological information

Acute toxicity	- LD ₅₀	3,4g/kg	(oral, mouse)
	- LD ₅₀	>5g/kg	(skin, guinea-pig)
Local effects	- skin and eyes : irritant		

12. Ecological information

This product is to be considered as being potentially dangerous for environment. Avoid any pollution of surface and ground waters.

Observe local/national regulations.

13. Disposal considerations

Waste destruction (directive 75/442/CE and 91/689/CE): incineration and dispose of waste material in accordance with ECC or local/national regulations.

Container reuse: An "empty" container can contain product residue, and should not be reused.

14. Transport information

Customs Tariff Nr. 3301.2941 non hazardous

14.1 UN-number
ADR, ADN, IMDG, IATA, ICAO N/A

14.2 Transport hazard class
Class N/A

14.3 Transport group
ADR, IMDG, IATA N/A
Not subjected to ADR

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture :
Substances are included in EINECS, ELINCS, NLP inventories or exempt

16. Other information

Bibliographic References :

- Guide of Safety Data Sheets of Annexe II Regulation EC n° 1907/2006 of the European Parliament concerning the Registration, Evaluation and Authorisation of Chemical (REACH)
- The EFFA Code Of Practice 2010, 23th of September 2010.

Last changes 30/11/2010 :

- New Regulation EC n°1272/2008
- Item 2 and 3 : New hazard and precautionary statements / pictograms

The information of this safety data sheet is based on current scientific knowledge. It should not be taken as expressing or implying any warranty concerning product characteristics.