

according to UK REACH Regulation

Revision date: 15.11.2021	Product code: 1410	0130 Page 1 d
SECTION 1: Identification of t	he substance/mixture and of the co	mpany/undertaking
<u>1.1. Product identifier</u> Fennel oil		
Substance name:	Fennel oil	
1.2. Relevant identified uses of the	ne substance or mixture and uses advis	sed against
Use of the substance/mixture		
Manufacture of cosmetics		
Uses advised against		
Any non-intended use.		
1.3. Details of the supplier of the	<u>safety data sheet</u>	
Company name:	Satcotek GmbH	
Street:	Gotenstrasse 13	
Place:	D-20097 Hamburg	
Telephone:	+49(0)40-5303669711	Telefax:+49(0)40-5303669766
Internet:	www.satcotek.com	
Responsible Department:	info@satcotek.com	
1.4. Emergency telephone	Poison Information Center Mainz,	Germany, Tel: +49(0)6131/19240
number:		,

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Hazard categories: Flammable liquid: Flam. Liq. 3 Carcinogenicity: Carc. 2 Germ cell mutagenicity: Muta. 2 Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1 Specific target organ toxicity - single exposure: STOT SE 2 Aspiration hazard: Asp. Tox. 1 Hazardous to the aquatic environment: Aquatic Chronic 1 Hazard Statements: Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of causing cancer. May cause damage to organs. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects. 2.2. Label elements

GB CLP Regulation

Hazard components for labelling Fennel oil

Signal word: Danger



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Pictograms:

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Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H371	May cause damage to organs.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	5
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P370+P378	In case of fire: Use Sand. Foam. Carbon dioxide (CO2). Extinguishing powder. Water spray jet to extinguish.
P391	Collect spillage.
P403+P235	Store in a well-ventilated place. Keep cool.

2.3. Other hazards

In use, may form flammable/explosive vapour-air mixture. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization INCI: FOENICULUM VULGARE OIL

Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	GHS Classification			
8006-84-6	Fennel oil		99 - <= 100 %	
	282-892-3			
	Flam. Liq. 3, Carc. 2, Muta. 2, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 2, Asp. Tox. 1, Aquatic Chronic 1; H226 H351 H341 H315 H319 H317 H371 H304 H410			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No Chemical name		Quantity
-			
	Specific Conc. Limits, M-factors and ATE		
8006-84-6	282-892-3 Fennel oil		99 - <= 100 %
oral: LD50 = 3120 mg/kg			



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Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Take off immediately all contaminated clothing.

After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Observe risk of aspiration if vomiting occurs. Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice. Always assume that aspiration has occurred. Seek professional medical attention or send the casualty to a hospital. Do not wait for symptoms to develop.

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

Inhalation can cause damage to the respiratory tract or lungs.

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

Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. In case of major fire and large quantities: Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Remove all sources of ignition. Ventilate affected area.



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Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

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.

For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information

Ventilate affected area.

6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Advice on general occupational hygiene

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight. Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.



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Protect against: UV-radiation/sunlight. heat. Humidity frost. storage temperature: 15-25°C

7.3. Specific end use(s)

See section 1.

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



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. (BS EN 374) Suitable material: Butyl rubber.

Thickness of glove material: 0,5 mm

Breakthrough time >= 480 min. penetration time (maximum wearing period): ~ 120 min. (estimated) In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

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.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

Generation/formation of aerosols

Exceeding exposure limit values

Insufficient ventilation

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A/P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.



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SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties Physical state: liquid Colour: not determined Odour: characteristic Changes in the physical state Melting point/freezing point: not applicable Boiling point or initial boiling point and not determined boiling range: Flash point: < 60 °C **Explosive properties** In use, may form flammable/explosive vapour-air mixture. not determined Lower explosion limits: not determined Upper explosion limits: Auto-ignition temperature: not determined not determined Decomposition temperature: pH-Value: not determined Viscosity / dynamic: not determined (at 40 °C) Viscosity / kinematic: not determined (at 20 °C) Water solubility: miscible. Solubility in other solvents not determined Vapour pressure: not determined (at 20 °C) Density: 0.9 g/cm³ not determined Relative vapour density: 9.2. Other information Information with regard to physical hazard classes Oxidizing properties none. Other safety characteristics not determined Solvent separation test: Solvent content: not determined Solid content: not determined Evaporation rate: not determined **Further Information SECTION 10: Stability and reactivity**

10.1. Reactivity

No information available.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.



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10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. Moisture. In use may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses. Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

The product has not been tested.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
8006-84-6	Fennel oil				
	oral	LD50 3120 mg/kg	Rat.		

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (Fennel oil)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects. (Fennel oil)

Suspected of causing cancer. (Fennel oil)

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure

May cause damage to organs. (Fennel oil)

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards

Endocrine disrupting properties

No data available.

SECTION 12: Ecological information

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12.1. Toxicity

The product has not been tested.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

UN 1993
FLAMMABLE LIQUID, N.O.S. (Fennel oil)
3
III
3



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		Fage 9 01 11
Classification code:	F1	
Special Provisions:	274 601	
Limited quantity:	5 L	
Excepted quantity:	E1	
Transport category:	3	
Hazard No: Tunnel restriction code:	30 D/E	
	DIE	
Inland waterways transport (ADN)	UN 1993	
14.1. UN number or ID number:		
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Fennel oil)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
Classification code:	F1	
Special Provisions:	274 601	
Limited quantity:	5 L	
Excepted quantity:	E1	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 1993	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Fennel oil)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
Marine pollutant:	YES	
Special Provisions:	223, 274, 955	
Limited quantity:	5 L	
Excepted quantity:	E1	
EmS:	F-E, S-E	
Air transport (ICAO-TI/IATA-DGR)		
<u>14.1. UN number or ID number:</u>	UN 1993	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Fennel oil)	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
Special Provisions:	A3	
Limited quantity Passenger:	10 L	



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Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	355	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	60 L 366	
IATA-max. quantity - Cargo:	220 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	NK
Danger releasing substance:	Fennel oil	\checkmark
14.6. Special precautions for user See section 8.		
14.7. Maritime transport in bulk according to	<u>o IMO instruments</u>	
not relevant.		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regul	ations/legislation specific for the substan	<u>ce or mixture</u>
EU regulatory information		
Restrictions on use (REACH, annex XVII):		
Entry 3, Entry 40		
2010/75/EU (VOC):	No information available.	
2004/42/EC (VOC):	No information available.	
Information according to 2012/18/EU	E1 Hazardous to the Aquatic Environment	t
(SEVESO III):		-
Additional information:	P5c	
Additional information		
Safety Data Sheet according to UK-RE	ACH Regulation	
	according to regulation (EC) No 1272/2008	[CLP].
UK REACH Appendix XVII, No (mixture	e): 3, 40	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juv work protection guideline' (94/33/EC).	veniles according to the 'juvenile
Water hazard class (D):	3 - highly hazardous to water	
15.2. Chemical safety assessment		
For the following substances of this mix	ture a chemical safety assessment has bee	en carried out:
SECTION 16: Other information		
Changes		
Rev. : 1,0 - 15.11.2021		
Abbreviations and acronyms		
ADR: Accord européen sur le transport	des marchandises dangereuses par Route	(European Agreement
concerning the International Carriage c	f Dangerous Goods by Road)	
CAS: Chemical Abstracts Service		
CLP: Classification, Labelling and Pack DNEL: Derived No Effect Level	aging of substances and mixtures	
d: day(s)		
EINECS: European INventory of Existi	ng Commercial chemical Substances	



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ELINCS: Euro	pean LIst of Notified Chemical Su	ubstances	
ECHA: Europe	ean Chemicals Agency		
EWC: Europea	an Waste Catalogue		
IARC: INTERN	ATIONAL AGENCY FOR RESE	ARCH ON CANCER	
IMDG: Interna	tional Maritime Code for Dangero	ous Goods	
IATA: Internat	onal Air Transport Association		
IATA-DGR: Da	angerous Goods Regulations by t	the "International Air Transport Association" (IATA)	
ICAO: Internat	ional Civil Aviation Organization		
ICAO-TI: Tech	nical Instructions by the "Internat	tional Civil Aviation Organization" (ICAO)	
GHS: Globally	Harmonized System of Classification	ation and Labelling of Chemicals	
GefStoffV: Ge	ahrstoffverordnung (Ordinance o	on Hazardous Substances, Germany)	
h: hour			
LOAEL: Lowe	st observed adverse effect level		
LOAEC: Lowe	st observed adverse effect conce	entration	
LC50: Lethal of	concentration, 50 percent		
LD50: Lethal of	lose, 50 percent		
	oserved adverse effect level		
NOAEC: No o	bserved adverse effect concentra	ation	
NLP: No-Long	er Polymers		
N/A: not applie	able		
OECD: Organ	sation for Economic Co-operation	n and Development	
	ed no effect concentration		
	nt bioaccumulative toxic		
		nsport des marchandises dangereuses par chemin de	
, -	-	ransport of Dangerous Goods by Rail)	
	stration, Evaluation, Authorisatior	n of Chemicals	
	nce of very high concern		
	sche Regeln für Gefahrstoffe		
UN: United Na			
VOC: Volatile	Organic Compounds		
Relevant H and E	UH statements (number and ful	ll text)	
H226	Flammable liquid and va		
H304	May be fatal if swallowe		
H315	Causes skin irritation.		
H317	May cause an allergic sl	kin reaction.	
H319	Causes serious eye irrita	ation.	
H341	Suspected of causing ge	enetic defects.	
H351	Suspected of causing ca		
H371	May cause damage to o	organs.	
H410	Very toxic to aquatic life	with long lasting effects.	
Further Informati	on		
Classification	according to Regulation (EC) No	1272/2008 [CLP] - Classification procedure:	
	s: Calculation method.		
Environmental	hazards: Calculation method.		
	rds: On basis of test data and / or	r calculated and / or estimated.	
The above info	ormation describes exclusively the	e safety requirements of the product and is based on o	ur
present-day ki	owledge. The information is inter	nded to give you advice about the safe handling of the	product
named in this	safety data sheet, for storage, pro	ocessing, transport and disposal. The information cann	ot be
		king the product with other products or in the case of	
processing th	e information on this safety data a	sheet is not necessarily valid for the new made-up mate	erial

processing, the information on this safety data sheet is not necessarily valid for the new made-up material.