



ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 7/15/2014 Revision date: 6/17/2021 Supersedes version of: 4/7/2021 Version: 1.7

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Substance name	: ORGANIC SWEET MARJORAM OIL
EC-No.	: 282-004-4
CAS-No.	: 84082-58-6
Product code	: BMARHE01
Synonyms	: CAS N° USA : 8015-01-8
Product group	: Organic essential oil

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

1.2.1. Relevant identified uses

Main use category	: Industrial use
Industrial/Professional use spec	: Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

EXAFLOR
5 rue des Pyrénées
P.O. Box CP 30561
94653 Rungis Cedex - France
T +33 (0)1 41 73 23 10
exaflor@orange.fr - www.exaflor.co

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
	ORFILA (FRANCE)		+33 1 45 42 59 59	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3	H226
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Reproductive toxicity, Category 2	H361
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Full text of H-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

Hazard statements (CLP)

Precautionary statements (CLP)

: Danger
: 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.
H335 - May cause respiratory irritation.
H361 - Suspected of damaging fertility or the unborn child.
H411 - Toxic to aquatic life with long lasting effects.
: P201 - Obtain special instructions before use.
P210 - Keep away from heat, sparks, open flames, hot surfaces. No smoking.
P261 - Avoid breathing fume, gas, dust, vapours.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective clothing, protective gloves, eye protection.
P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER, a doctor. Do NOT induce vomiting.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P312 - Call a doctor, a POISON CENTER if you feel unwell.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name : ORGANIC SWEET MARJORAM OIL
CAS-No. : 84082-58-6
EC-No. : 282-004-4

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4-TERPINEOL	CAS-No.: 562-74-3 EC-No.: 209-235-5	20 – 32	Acute Tox. 4 (Oral), H302 (ATE=1300 mg/kg de poids corporel) Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
GAMMA-TERPINENE	CAS-No.: 99-85-4 EC-No.: 202-794-6	10 – 20	Flam. Liq. 3, H226 Repr. 2, H361 Asp. Tox. 1, H304
ALPHA-TERPINENE	CAS-No.: 99-86-5 EC-No.: 202-795-1	0 – 12	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=1680 mg/kg de poids corporel) Asp. Tox. 1, H304 Aquatic Chronic 2, H411

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ALPHA-TERPINEOL	CAS-No.: 98-55-5 EC-No.: 202-680-6	≤ 8	Skin Irrit. 2, H315 Eye Irrit. 2, H319
BETA-PHELLANDRENE	CAS-No.: 555-10-2 EC-No.: 209-081-9	≤ 6	Flam. Liq. 3, H226 Asp. Tox. 1, H304
P-CYMENE	CAS-No.: 99-87-6 EC-No.: 202-796-7	≤ 6	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 2, H411
TERPINOLENE	CAS-No.: 586-62-9 EC-No.: 209-578-0	≤ 6	Flam. Liq. 3, H226 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINALYL ACETATE	CAS-No.: 115-95-7 EC-No.: 204-116-4	≤ 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319
D-LIMONENE	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-029-00-7	≤ 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BETA-CARYOPHYLLENE	CAS-No.: 87-44-5 EC-No.: 201-746-1	≤ 5	Not classified
MYRCENE	CAS-No.: 123-35-3 EC-No.: 204-622-5	≤ 4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319
LINALOOL	CAS-No.: 78-70-6 EC-No.: 201-134-4	≤ 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
GERANIOL	CAS-No.: 106-24-1 EC-No.: 203-377-1	≤ 0.5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water/... Wash contaminated clothing before reuse. If skin irritation occurs: Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Read label before use. on this label). If skin irritation or rash occurs: Get immediate medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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. Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/effects after skin contact : Causes skin irritation. Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact : Causes serious eye irritation. Eye irritation.
Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of lung oedema.

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 : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.
Explosion hazard : May form flammable/explosive vapour-air mixture.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid breathing smokes, vapours. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes.
Hygiene measures	: Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof ventilating equipment.
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Heat sources, Direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight. Heat sources.
Maximum storage period	: 36 months Shelf life to guarantee the quality and properties of the product; After this period, it is recommended to control organoleptic and physicochemical properties before using the raw material.
Storage temperature	: ~ 18 (5 – 25) °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

8.2.2.3. Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow. Green. yellowish.
Odour	: characteristic. sweet. herbaceous.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Flammable liquid and vapour.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: 46 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Insoluble in water. Soluble in. alcohol. Solubility in ethanol.
Partition coefficient n-octanol/water (Log Kow)	: Not available

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 0.858 – 0.93
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content	: < 10 %
Refractive index	: 1.465 – 1.48

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ORGANIC SWEET MARJORAM OIL (84082-58-6)

LD50 oral rat	2100 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

4-TERPINEOL (562-74-3)	
LD50 oral rat	1300 mg/kg
LD50 dermal rabbit	2500 mg/kg
GAMMA-TERPINENE (99-85-4)	
LD50 oral rat	3850
ALPHA-TERPINENE (99-86-5)	
LD50 oral rat	1680 mg/kg
TERPINOLENE (586-62-9)	
LD50 oral rat	4390 mg/kg
LD50 oral	300 mg/kg LD50 oral mouse
LD50, acute, oral, rabbit	= 3200 mg/kg
P-CYMENE (99-87-6)	
LD50 oral rat	4750 mg/kg
LD50 dermal rabbit	5000
D-LIMONENE (5989-27-5)	
LD50 oral rat	4400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LINALYL ACETATE (115-95-7)	
LD50 oral rat	13934 mg/kg
MYRCENE (123-35-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LINALOOL (78-70-6)	
LD50 oral rat	2790 mg/kg
LD50 oral	3120 mg/kg LD50 oral mouse
LD50 dermal rabbit	5610 mg/kg
GERANIOL (106-24-1)	
LD50 oral rat	3600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
D-LIMONENE (5989-27-5)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation.

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

4-TERPINEOL (562-74-3)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met
---	--

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Ecology - water	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Toxic to aquatic life with long lasting effects.

ALPHA-TERPINENE (99-86-5)

LC50 - Fish [1]	3.15 mg/l LC50 96h fish - Pimephales promela (fathead minnow)
EC50 - Crustacea [1]	1.85 mg/l EC50 48h - Daphnia magna [mg/l]

TERPINOLENE (586-62-9)

LC50 - Fish [1]	0.72 mg/l LC50 96h fish Pimephales promela (fathead minnow)
-----------------	---

P-CYMENE (99-87-6)

LC50 - Fish [1]	48 mg/l 96H -Cyprinodon variegatus (Sheep shead minnow)
EC50 - Crustacea [1]	6.5 mg/l EC50 48h - Daphnia magna [mg/l]
ErC50 algae	4.03 mg/l 72h - Scenedesmus capricornutum (Fresh water algae)

D-LIMONENE (5989-27-5)

LC50 - Fish [1]	0.702 mg/l Pimephales promela (fathead minnow) -96h
EC50 - Crustacea [1]	69.6 daphnia - 48h

LINALOOL (78-70-6)

LC50 - Fish [1]	27.8 mg/l EC 50 (fish : rainbow trout) : - 96h
LC50 - Other aquatic organisms [1]	88.3 mg/l Desmodesmus subspicatus (green algae) - 96h
EC50 - Crustacea [1]	59 mg/l EC50 48h - Daphnia magna [mg/l]
NOEC chronic fish	3.5 mg/l Oncorhynchus mykiss (Rainbow trout)- 96h
NOEC chronic crustacea	25 mg/l daphnia - 48h

GERANIOL (106-24-1)

LC50 - Fish [1]	env. 22 mg/l Brachydanio rerio (zebra-fish) - 96h
EC50 - Crustacea [1]	10.8 mg/l EC50 48h - Daphnia magna [mg/l]
EC50 - Other aquatic organisms [1]	13.1 mg/l Desmodesmus subspicatus (green algae) -72h

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

12.2. Persistence and degradability

ORGANIC SWEET MARJORAM OIL (84082-58-6)

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

4-TERPINEOL (562-74-3)

Persistence and degradability	Not established.
-------------------------------	------------------

GAMMA-TERPINENE (99-85-4)

Persistence and degradability	Not established.
-------------------------------	------------------

ALPHA-TERPINENE (99-86-5)

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

ALPHA-TERPINEOL (98-55-5)

Persistence and degradability	Not established.
-------------------------------	------------------

TERPINOLENE (586-62-9)

Persistence and degradability	51 % biodegradation Product has only a limited biodegradability in soil and water. May cause long-term adverse effects in the environment.
-------------------------------	--

Biodegradation	51 %
----------------	------

P-CYMENE (99-87-6)

Persistence and degradability	Readily biodegradable.
-------------------------------	------------------------

Biodegradation	100 %
----------------	-------

BETA-PHELLANDRENE (555-10-2)

Persistence and degradability	Not established.
-------------------------------	------------------

D-LIMONENE (5989-27-5)

Persistence and degradability	May cause long-term adverse effects in the environment.
-------------------------------	---

LINALYL ACETATE (115-95-7)

Persistence and degradability	Not established.
-------------------------------	------------------

MYRCENE (123-35-3)

Persistence and degradability	Not established.
-------------------------------	------------------

LINALOOL (78-70-6)

Persistence and degradability	Readily biodegradable. Not established.
-------------------------------	---

Biodegradation	100 % 13 DAYS- ZAHN-WELLENS TEST OECD N° 302 B
----------------	--

GERANIOL (106-24-1)

Persistence and degradability	Readily biodegradable. Not established.
-------------------------------	---

Biodegradation	80 – 100 % aérobic, Exposure duration 3 days
----------------	--

12.3. Bioaccumulative potential

ORGANIC SWEET MARJORAM OIL (84082-58-6)

Bioaccumulative potential	Not established.
---------------------------	------------------

4-TERPINEOL (562-74-3)

Bioaccumulative potential	Not established.
---------------------------	------------------

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

GAMMA-TERPINENE (99-85-4)	
Bioaccumulative potential	Not established.
ALPHA-TERPINENE (99-86-5)	
Partition coefficient n-octanol/water (Log Pow)	4.25
Bioaccumulative potential	Not established.
ALPHA-TERPINEOL (98-55-5)	
Bioaccumulative potential	Not established.
TERPINOLENE (586-62-9)	
Partition coefficient n-octanol/water (Log Pow)	4.47
Bioaccumulative potential	Not established.
P-CYMENE (99-87-6)	
Partition coefficient n-octanol/water (Log Kow)	4.1
BETA-PHELLANDRENE (555-10-2)	
Partition coefficient n-octanol/water (Log Kow)	4.7
Bioaccumulative potential	Not established.
D-LIMONENE (5989-27-5)	
Bioaccumulative potential	Not established.
LINALYL ACETATE (115-95-7)	
Partition coefficient n-octanol/water (Log Kow)	3.93
Bioaccumulative potential	Not established.
MYRCENE (123-35-3)	
Partition coefficient n-octanol/water (Log Kow)	4.17
Bioaccumulative potential	Not established.
LINALOOL (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.97
Bioaccumulative potential	Not established.
GERANIOL (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	2.5 at 25 °C
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to contents/container to agreed companies according to national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable. Flammable vapours may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR)	: UN 1169
UN-No. (IMDG)	: UN 1169
UN-No. (IATA)	: UN 1169
UN-No. (ADN)	: UN 1169
UN-No. (RID)	: UN 1169

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: EXTRACTS, AROMATIC, LIQUID
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
Transport document description (ADR)	: UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1169 , 3, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1169 , 3, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: 3
Danger labels (ADR)	: 3



IMDG

Transport hazard class(es) (IMDG)	: 3
	:



IATA

Transport hazard class(es) (IATA)	: 3
-----------------------------------	-----

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878



ADN

Transport hazard class(es) (ADN)

: 3

:



RID

Transport hazard class(es) (RID)

: 3

Danger labels (RID)

: 3

:



14.4. Packing group

Packing group (ADR)

: III

Packing group (IMDG)

: Not applicable

Packing group (IATA)

: Not applicable

Packing group (ADN)

: Not applicable

Packing group (RID)

: Not applicable

14.5. Environmental hazards

Dangerous for the environment

: Yes

Marine pollutant

: Yes

Other information

: No supplementary information available

14.6. Special precautions for user

Overland transport

Classification code (ADR)

: F1

Special provisions (ADR)

: 601, 640E

Limited quantities (ADR)

: 5I

Excepted quantities (ADR)

: E1

Vehicle for tank carriage

: FL

Transport category (ADR)

: 3

Hazard identification number (Kemler No.)

: 30

Orange plates

:



Tunnel restriction code (ADR)

: D/E

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ORGANIC SWEET MARJORAM OIL is not on the REACH Candidate List

ORGANIC SWEET MARJORAM OIL is not on the REACH Annex XIV List

ORGANIC SWEET MARJORAM OIL is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

ORGANIC SWEET MARJORAM OIL is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : < 10 %

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 5829)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Abbreviations and acronyms	
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

ORGANIC SWEET MARJORAM OIL

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.