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Page: 1 of 10

v.4 08/2019

SAFETY DATA SHEET

according to regulation (EC) 1907/2006

according to regulation (EU) 2015/830

2810 Thyme (Field Thyme) organic



1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

Trade Name: Thyme (Field Thyme) organic
Botanical Name: Thymus serpyllum
INCI: Thymus serpyllum Oil
CAS TSCA-No: 8007-46-3
CAS EINECS-No: 84776-98-7
EINECS-No.: 284-023-3
FEMA-No.: /

1.2 Relevant identified uses of the substance and uses advised against

Substance use: Perfumery and/or aromatic uses

1.3 Details of the supplier of the safety data sheet

Supplier name: AYUS GmbH
Address: Am Dreschschopf 1, 77815 Bühl, Deutschland
Phone: +49 7227 600 99-0
Fax: +49 7227 600 99-99
E-mail: info@oshadhi.eu

1.4 Emergency telephone number

Poison emergency number: +49 89-19240

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance according to regulation (EG) 1272/2008 (CLP)

| Hazard class and Hazard category | Code | Hazard statement |
|--|------|--|
| Flammable liquids, category 3 | H226 | Flammable liquid and vapour. |
| Acute Toxicity, category 4 - oral | H302 | Harmful if swallowed. |
| Aspiration hazard, category 1 | H304 | May be fatal if swallowed and enters airways. |
| Skin corrosion/irritation, category 1A, 1B, 1C | H314 | Causes severe skin burns and eye damage. |
| Causes serious eye damage/irritation, category 1 | H318 | Causes serious eye damage. |
| Hazardous to the aquatic environment, chronic category 2 | H411 | Toxic to aquatic life with long lasting effects. |

2.2 Label elements

Hazard pictogram and signal word



DANGER:

H-Statements:

| | |
|------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H411 | Toxic to aquatic life with long lasting effects. |

P-Statements:**Prevention:**

| | |
|------|--|
| P210 | Keep away from heat /sparks /open flames/hot surfaces. – No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical /ventilating /lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breath vapours /spray. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves /eye protection. |

Response:

| | |
|---|--|
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor /physician if you feel unwell. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 with water /shower. | IF ON SKIN (or hair): Remove /Take off immediately all contaminated clothing. Rinse skin |
| P304+P340 breathing. | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for |
| P305+P351+P338 present and easy to do. Continue rinsing. | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if |
| P310 | Immediately call a POISON CENTER or doctor /physician. |
| P321 | Specific treatment (see on this label). |
| P330 | Rinse mouth. |
| P331 | Do NOT induce vomiting. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use CO2 for extinction. |
| P391 | Collect spillage. |

Storage:

| | |
|-----------|--|
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |

Disposal:

| | |
|------|--|
| P501 | Dispose of contents /container to special waste. |
|------|--|

2.3 Other Hazards

Allergens (according to regulation (EC) No 1223/2009 on cosmetic products)

| Allergens | Concentration |
|-----------|---------------|
| Limonene | < 2 % |
| Geraniol | < 12 % |
| Linalool | < 15 % |

3. COMPOSITION / INFORMATION ON INGREDIENTS**3.1 Substances**

Chemical Identification: Thymus serpyllum oil (100% natural essential oil)

Hazardous constituent: according to EG-Regulation 1272/2008 (CLP)

| Ingredient | Concentration | Registration-N. | CLP-Classification |
|---------------------|----------------------|---|---|
| 1-Octen-3-ol | < 1 % | CAS-No: 3391-86-4 EINECS-No: 222-226-0 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 Aquatic Acute 1, H400 |
| alpha-Phellandrene | < 1 % | CAS-No: 99-83-2 EINECS-No: 202-792-5 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 STOT SE 3, H335 |
| alpha-Pinene | < 1 % | CAS-No: 80-56-8 EINECS-No: 201-291-9 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| alpha-Terpinene | < 2 % | CAS-No: 99-86-5 EINECS-No: 202-795-1 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| alpha-Terpineol | < 1 % | CAS-No: 98-55-5 EINECS-No: 202-680-6 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| alpha-Thuyene | < 1 % | CAS-No: 2867-05-2 EINECS-No: 220-686-7 | No records, |
| beta-Bisabolene | < 1 % | CAS-No: 495-61-4 EINECS-No: 310-198-3 | No records, |
| Borneol | < 2 % | CAS-No: 507-70-0 EINECS-No: 207-353-1 | Flam. Sol. 1, H228 |
| Camphene | < 1 % | CAS-No: 79-92-5 EINECS-No: 201-234-8 | Flam. Sol. 1, H228 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Carvacrol | < 67 % | CAS-No: 499-75-2 EINECS-No: 207-889-6 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 |
| Caryophyllene oxide | < 1 % | CAS-No: 1139-30-6 EINECS-No: 214-519-7 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 |
| gamma-Terpinene | < 6 % | CAS-No: 99-85-4 EINECS-No: 202-794-6 | Flam. Liq. 3, H226 Asp. Tox. 1, H304 |
| Limonene | < 1 % | CAS-No: 5989-27-5 EINECS-No: 227-813-5 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Linalool | < 11 % | CAS-No: 78-70-6 EINECS-No: 201-134-4 | Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 |
| p-Cymene | < 7 % | CAS-No: 99-87-6 EINECS-No: 202-796-7 | Flam. Liq. 3, H226 Acute Tox. 4, H302 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Aquatic Chronic 2, H411 |
| Sabinene | < 1 % | CAS-No: 3387-41-5 EINECS-No: 222-212-4 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 |

| | | | |
|---------------------|-------|--|---|
| | | | Eye Irrit. 2, H319 STOT SE 3, H335 |
| Terpinene-4-ol | < 1 % | CAS-No: 562-74-3 EINECS-No: 209-235-5 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |
| Terpinolene | < 1 % | CAS-No: 586-62-9 EINECS-No: 209-578-0 | Asp. Tox. 1, H304 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Thymol | < 2 % | CAS-No: 89-83-8 EINECS-No: 201-944-8 | Acute Tox. 4, H302 Skin. Corr. 1A, 1B, 1C, H314 Aquatic Chronic 2, H411 |
| trans-Caryophyllene | < 2 % | CAS-No: / EINECS-No: / | No records, |

4. FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|------------------------------|--|
| Excessive inhalation: | Remove to fresh air environment – summon a physician immediately. |
| Skin contact: | 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: | Wash contaminated skin with copious amounts of water for at least 10 minutes – open eyelids forcibly. Summon a physician immediately. |
| Ingestion: | Dilute with water. Do not induce vomiting. Contact physician. |

4.2 Most important symptoms and effects, both acute and delayed

No further details.

4.3 Indication of any immediate medical attention and special treatment needed

Contact a poison specialist immediately if large quantities have been ingested or inhaled.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Advised extinguisher: Use CO₂, dry powder, fire extinguisher or foam.

Unadvisable extinguisher: Direct jet of water.

5.2 Special hazards arising from the substance or mixture

Avoid breathing vapours and smokes produced by fire.

Burning will cause strong smoke and soot.

5.3 Advice for firefighters

Do not attempt to fight the fire with water, which tends to feed rather than smother the flames. Essential oils have the ability to float on water and this causes the fire to propagate more quickly.

Small fires can be smothered by covering with earth, sand or a blanket.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid skin, eye and clothes contact. There is a risk of sliding caused by the leaked product. Ventilate well spilling area. Keep away from sources of ignition.

6.2 Environmental precautions

Avoid dispose into drainage, sewer system or in any natural environment. Dispose binding material, cloths and sponges according to the national law.

6.3 Methods and material for containment and cleaning up

Use of absorbent material (e.g. sand, diatomaceous earth).

6.4 Reference to other sections

Please see section 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Ventilate the storage and preparation warehouse/laboratory. Avoid eating, drinking and smoking in the places where products are stored and treated. Manipulate with caution to avoid any projection particularly in eyes and on mucous membranes. Do not expose vapors to the flame or quite other source of ignition. Do not inhale warm vapors.

7.2 Conditions for safe storage, including any incompatibilities

It is recommended to keep the product in a water-tight and air-tight container. Keep away from heat and sunlight. Store in a cool and good ventilated area.

7.3 Specific end uses

No specific.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Please pay attention to the usual precautionary measures with the contact of essential oils. Use good hygiene practice: Please wash before contact, before eating and at the end of the working day.

8.2 Exposure controls

Personal protective equipment:

Breathing protection: Use in well aired areas.

Eye protection: Safety glasses.

Hand protection: Protecting gloves.

Skin protection: Avoid skin contact. Protective suit should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|-----------------------|
| Color: | yellowish to rubicund |
| Appearance: | oily liquid |
| Odor: | characteristic, spicy |
| pH-value: | no data available |
| Flash point: | 63°C |
| Water solubility: | Insoluble |
| Steam pressure: | Unavailable |
| Initial boiling point and boiling range: | Unavailable |
| Relative density at 20 °C: | 0,895 - 0,932 |
| Refractive index at 20°C: | 1,48 - 1,508 |
| Optical rotation at 20°C: | -4° to +4° |

9.2 Other information:

Main components: Thymus serpyllum Oil, Geraniol, Limonene, Linalool

10. STABILITY AND REACTIVITY

10.1 Reactivity

This product is stable under normal usage conditions.

10.2. Chemical stability

This product is stable under normal usage conditions.

10.3 Possibility of hazardous reactions

None according to our knowledge.

10.4 Conditions to avoid

Do not expose to high temperature or ignition.

10.5 Incompatible materials

Avoid flammable materials, PVC.

10.6 Hazardous decompositions products

Nothing in proper storage conditions.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicological specifications of the important substances:

| Chemical description | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------|---------------------|------------------------|-----------------|
| 1-Octen-3-ol | 340 mg/kg (rat) | 3.300 mg/kg (rabbit) | / |
| alpha-Phellandrene | / | / | / |
| alpha-Pinene | 3.700 mg/kg (rat) | > 5.000 mg/kg (rabbit) | / |
| alpha-Terpinene | 1.680 mg/kg (rat) | / | / |
| alpha-Terpineol | 5.170 mg/kg (rat) | / | / |
| alpha-Thuyene | / | / | / |
| beta-Bisabolene | / | / | / |
| Borneol | 4.300 mg/kg (rat) | > 3.000 mg/kg (rabbit) | / |
| Camphene | 5.000 mg/kg (rat) | > 2.500 mg/kg (rabbit) | / |
| Carvacrol | 810 mg/kg | / | / |
| Caryophyllene oxide | > 5.000 mg/kg (rat) | > 2.000 mg/kg (rabbit) | / |
| gamma-Terpinene | 3.650 mg/kg (rat) | / | / |
| Limonene | 4.400 mg/kg (rat) | > 5.000 mg/kg (rabbit) | / |
| Linalool | 2.790 mg/kg (rat) | 5.610 mg/kg (rabbit) | / |
| p-Cymene | 1.400 mg/kg (rat) | > 5.000 mg/kg | / |
| Sabinene | / | / | / |
| Terpinene-4-ol | 1.300 mg/kg (rat) | / | / |
| Terpinolene | 4.390 mg/kg (rat) | / | / |
| Thymol | 980 mg/kg (rat) | > 2.000 mg/kg (rat) | / |
| trans-Caryophyllene | / | / | / |

Skin corrosion/irritation:

H314 Causes severe skin burns and eye damage.

Serious eye damage/irritation:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Respiratory or skin sensitization:

H302 Harmful if swallowed.

Aspiration hazard:

H304 May be fatal if swallowed and enters airways.

Germ cell mutagenicity:

No significant effects or critical hazards.

Carcinogenicity:

No significant effects or critical hazards.

Reproductive toxicity:

No significant effects or critical hazards.

STOT-single exposure

Unavailable data.

STOT-repeated exposure

Unavailable data.

Information on likely routes of exposure

Unavailable data.

Symptoms related to the physical, chemical and toxicological characteristics

Unavailable data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Unavailable data.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Use product only referred of good laboratory practice (GLP) to insure that it is not released into the environment.

According to regulation 1272/2008:

H411 Toxic to aquatic life with long lasting effects.

Daphnies toxicity (EC50):

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

No further relevant information available.

Partition coefficient n-octanol / water (log KOW)

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

No further relevant information available.

12.6 Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Waste should be recycled or disposed of according to the legislation in force, preferably by an approved recycling or waste treatment company.

14. TRANSPORT INFORMATION

14.1 UN-number

2924

14.2 UN proper shipping name

Land transport: ADR/RID; Dispatch Name: EXTRAKTE, AROMATISCH, FLÜSSIG

Transport by sea: IMDG/IMO; Technical Name: EXTRACTS, AROMATIC, LIQUID

Transport by air: ICAO/IATA; Technical Name: EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class

ADR/RID: Class 3

IMDG/IMO: Class 3

ICAO/IATA: Class 3

14.4 Packing group

ADR/RID: Packing group III, Kemler code: 30

IMDG/IMO: Packing group III
ICAO/IATA: Packing group III

14.5 Environmental hazards

IMDG - Sea pollutant: Yes

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code

Not applicable.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations (legislation) specific for the substance or mixture

Council Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances and its subsequent amendments.

Directive 1999/45/EC of the European Parliament concerning the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous preparations and its subsequent amendments.

Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work preparations.

Directive 2003/15/EC

Directive 2006/8/EC

Directive 91/322/EEC

Directive 2000/39/EC

Regulation (EC) No 1907/2006 (REACH) and its subsequent amendments

Regulation (EC) No 1272/2008 (CLP)

Regulation (EC) No 790/2009

Directive 2003/105/EC - Protection of workers - Control of major-accident hazards involving dangerous substances and its subsequent amendments

German Regulation on Substances Hazardous to Water 2005 (VwVwS),

15.2 Chemical safety assessment

Not relevant.

16. OTHER INFORMATION

Latest changes

This data sheet replaces all previous editions. The content of the SDS is regulated by the Regulation (EC) n°1907/2006 (REACH).

Common shortened form:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification, Labeling, Packaging

EINECS: European Inventory of Existing Commercial Chemical Substances

FEMA: Federal Emergency Management Agency

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

IATA: Dangerous Goods Regulation by the "International Air Transport Association" (IATA)

ICAO: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

IMDG: International Maritime Code for Dangerous Goods

IMO: International Maritime Organization

INCI: International Nomenclature of Cosmetic Ingredients

LC50: Lethal Concentration for 50 percent of the test population

LD50: Lethal Dose for 50 percent of the test population

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

PBT: Persistent Bioaccumulating Toxicants

vPvB: Very Persistent and Very Bioaccumulative Substance

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail

STOT: Specific Target Organ Toxicity

TSCA: Toxic Substances Control Act

Hazard statements according to regulation (EC) 1272/2008 (CLP):

| Code | Description |
|-------------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precaution statements according to regulation (EC) 1272/2008 (CLP):

| Code | Description |
|---------------------------|--|
| <u>Prevention:</u> | |
| P210 | Keep away from heat /sparks /open flames/hot surfaces. – No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical /ventilating /lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breath vapours /spray. |
| P264 | Wash thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves /eye protection. |

Response:

| | |
|----------------|--|
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor /physician. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor /physician if you feel unwell. |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Remove /Take off immediately all contaminated clothing. Rinse skin with water /shower. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER or doctor /physician. |
| P321 | Specific treatment (see on this label). |
| P330 | Rinse mouth. |
| P331 | Do NOT induce vomiting. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use CO2 for extinction. |
| P391 | Collect spillage. |

Storage:

| | |
|-----------|--|
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |

Disposal:

| | |
|------|--|
| P501 | Dispose of contents /container to special waste. |
|------|--|

Training advice:

| | |
|--------------------------------|----------------|
| Possible hazards: | see section 2 |
| First aid measures: | see section 4 |
| Firefighting measures: | see section 5 |
| Personal protection equipment: | see section 8 |
| Waste treatment methods: | see section 13 |

The information this contains is based on the state of our knowledge about the product concerned at the time of update. They are given in good faith. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates

only to the specific material designated and may not be valid for such material used in combination with any other Materials or in any process, unless specified in the text. Even though precaution has been taken to ensure accuracy of data, no guarantee can be given. Because data's are taken partly from other sources.

To be observed: This data sheet contains product data as it was available to Ayus GmbH at the date of release. Ayus GmbH cannot take any responsibility for the correctness of the data – this lies entirely with the producer or manufacturer. The responsibility for proper utilization of the product, as well as its handling and storage lies with the buyer or user. They have been educated about the consequences of misuse of the product.

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