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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 16.03.2023 Version number 2.00 (replaces version 1.00) Revision: 16.03.2023

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

· Product identifier

· Trade name: Marjoram oil

· Article number: G468

- · Registration number The substance is exempt from REACH-registration.
- · Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- · Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

CAELO

Caesar & Loretz GmbH

Herderstr. 31 D-40721 Hilden GERMANY

OLI (IVI) (IVI)

· Further information obtainable from:

E-mail: info@caelo.de

Tel.: +49210349940 (during regular opening hours)

· Emergency telephone number:

Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn

Tel: +49 (0) 228-192400

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

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· Hazard pictograms



Signal word Danger

Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P331 Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Other hazards

· Results of PBT and vPvB assessment

- PBT: Not applicable.vPvB: Not applicable.
- Determination of endocrine-disrupting properties Not applicable.

3 Composition/information on ingredients

- · Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

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Dangerous components:				
CAS: 78-70-6	Linalool	10-25%		
EINECS: 201-134-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317			
CAS: 562-74-3	4-Carvomenthenol	10-25%		
EINECS: 209-235-5	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319			
CAS: 89-83-8	thymol	2.5-10%		
EINECS: 201-944-8	Skin Corr. 1B, H314; Aquatic Chronic 2, H411; Acute Tox. 4, H302			
CAS: 99-86-5	p-mentha-1,3-diene	2.5-10%		
EINECS: 202-795-1	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Acute 4, H302; Skin Sens. 1, H317 ATE: LD50 oral: 1,680 mg/kg	Гох.		
CAS: 115-95-7	linalyl acetate	2.5-10%		
EINECS: 204-116-4	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Self-react. G			
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	2.5-10%		
EINECS: 227-813-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Skin Irrit. H315; Skin Sens. 1B, H317; Aquatic Chronic 3, H412	2,		
CAS: 80-56-8	alpha-Pinene	<2.5%		
EINECS: 201-291-9	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317			
CAS: 99-87-6	p-cymene	<2.5%		
EINECS: 202-796-7	Flam. Liq. 3, H226; Acute Tox. 3, H331; Asp. Tox. 1, H304; Aquatic Chr 2, H411	onic		
CAS: 106-24-1	geraniol	<2.5%		
EINECS: 203-377-1	Skin Sens. 1A, H317			
CAS: 123-35-3	Myrcene	<2.5%		
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H	317		
CAS: 127-91-3	beta-Pinene	<2.5%		
EINECS: 204-872-5	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317			
CAS: 499-75-2	carvacrol	<2.5%		
EINECS: 207-889-6	Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Skin Sens. 1B, H317	9		
CAS: 586-62-9	terpinolene	<2.5%		
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410			
· Additional information: For the wording of the listed hazard phrases refer to section 16.				

4 First aid measures

- · Description of first aid measures
- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Call for a doctor immediately.
- Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fire with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- · Additional information

Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Store receptacle in a well ventilated area.

Protect from heat and direct sunlight.

- · Storage class: TRHS 510: 3 Flammable liquid
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Respiratory protection: Respiratory with filter.
- · Hand protection Protective gloves
- Material of gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information

· Physical state Fluid · Colour: Yellow

· Odour: Characteristic
· Odour threshold: Not determined.

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· Melting point/freezing point: -20 °C

Boiling point or initial boiling point and boiling range 181 °C

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.Upper: Not determined.

· Flash point: 57 °C · Ignition temperature: 253 °C

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

• water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not determined.

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

Other information

· Appearance:

Form: Fluid

· Important information on protection of health and environment, and on safety.

• Auto-ignition temperature: Product is not selfigniting.

• Explosive properties: Not determined.

· Solvent content:

• Organic solvents: 4.7–11.6 % • VOC (EC) 4.65–11.63 %

· Change in condition

• **Evaporation rate** Not determined.

 \cdot Information with regard to physical hazard

classes

· Explosives Void

Void • Flammable gases Void

Void
• Aerosols
Void
Void

· Oxidising gases Void Void

· Gases under pressure Void Void

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· Flammable liquids	Flammable liquid and vapour.	
	Void	
· Flammable solids	Void	
	Void	
· Self-reactive substances and mixtures	Void	
	Void	
· Pyrophoric liquids	Void	
	Void	
· Pyrophoric solids	Void	
	Void	
Self-heating substances and mixtures	Void	
	Void	
· Substances and mixtures, which emit flamm	nable	
gases in contact with water	Void	
	Void	
· Oxidising liquids	Void	
•	Void	
· Oxidising solids	Void	
•	Void	
· Organic peroxides	Void	
	Void	
· Corrosive to metals	Void	
	Void	
· Desensitised explosives	Void	
-	Void	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.
- · LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

LD50 1,553-3,963 mg/kg Inhalative LC50 129 mg/m3 (mouse)

CAS: 78-70-6 Linalool

Oral LD50 2,790 mg/kg (rat)

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Dermal LD50 5,610 mg/kg (rabbit)

CAS: 89-83-8 thymol

Oral LD50 1,300 mg/kg (mouse)

980 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rat)

2,000 mg/kg (rabbit)

Inhalative LC50 10 mg/m3 /7h (mouse)

CAS: 5989-27-5 (R)-p-mentha-1,8-diene

Oral LD50 4,400 mg/kg (rat)

CAS: 499-75-2 carvacrol

Oral LD50 810 mg/kg (rat)

- · 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 Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard May be fatal if swallowed and enters airways.
- Information on other hazards
- Endocrine disrupting properties

On the basis of the available data, the substance does not meet the criteria for the identification of substances having properties of interference with the endocrine system, in accordance with Article 59, paragraph 1 of the REACH Regulation and the criteria established in the Delegated Regulation (EU) 2017 / 2100 of the Commission or in Commission Regulation (EU) 2018/605.

12 Ecological information

- · Toxicity
- · Aquatic toxicity:

CAS: 89-83-8 thymol

LC50 3.2 mg/L /4d (invertebrates)

EC50 14 mg/L /72h (Algae)

100 mg/L /48h (Microorganism)

EC10 3.5 mg/L /21d (invertebrates)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- Endocrine disrupting properties

Based on the available data, the substance does not meet the criteria for the identification of substances with properties affecting the endocrine system according to Article 59(1) of the REACH Regulation and the criteria of the Commission Delegated Regulation (EU) 2017/2100 or in the Commission Regulation (EU)

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2018/605.

- · Other adverse effects · Remark: Toxic for fish
- Additional application inform
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to local regulations.

14 Transport information

· UN number or ID number

· ADR, IMDG, IATA UN1993

· UN proper shipping name

· **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (p-mentha-1,3-diene,

thymol), ENVIRONMENTALLY HAZÄRDOUS

· **IMDG** FLAMMABLE LIQUID, N.O.S. (p-mentha-1,3-diene,

thymol, DIPENTENE, alpha-PIÑENE, CYMENES, Myrcene, beta-Pinene, TERPINOLENE), MARINE

POLLUTANT

· IATA Flammable liquid, n.o.s. (p-mentha-1,3-diene, thymol)

· Transport hazard class(es)

· ADR, IMDG, IATA

• Class 3 Flammable liquids.

· Label 3

· Packing group

· ADR, IMDG, IATA III

• Environmental hazards: Product contains environmentally hazardous substances:

(R)-p-mentha-1,8-diene Symbol (fish and tree)

Marine pollutant:
 Special marking (ADR):
 Special precautions for user
 Symbol (fish and tree)
 Warning: Flammable liquids.

· Hazard identification number (Kemler code): 30 · EMS Number: F-E,S-E

· Maritime transport in bulk according to IMO

instruments Not applicable.

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· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Transport category
 Tunnel restriction code

5L
3
D/E

· IMDG

· Limited quantities (LQ) 51

· UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (P-MENTHA-1,3-

DIENE, THYMOL), 3, III, ENVIRONMENTALLY

HAZARDOUS

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

None of the ingredients is listed.

- · National regulations:
- · Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany)
 TRHS 510: 3 Flammable liquid
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended.

- Reasons for alterations This version replaces all old versions.
- Relevant phrases
- 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- 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.
- H412 Harmful to aquatic life with long lasting effects.
- Version number of previous version: 1.00
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

VOC: Volatile Organic Compounds (USA, EU)

MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids - Category 3

Self-react. G: Self-reactive substances and mixtures - Type G

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation – Category 1B Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3