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

Printing date: 29.06.2016 Version: 1.01 Revision: 29.06.2016

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

- · 1.1 Product identifier
- · Trade name: MIRAVIT EukaMint liquid
- $\cdot$  1.2 Relevant identified uses of the substance or mixture and uses advised against: -
- · Application of the substance / the preparation: Animal feed
- · Uses advised against -
- · 1.3 Details of the supplier of the safety data sheet
- · Supplier/Manufacturer:

VitaVis GmbH Industrieweg 110 48155 Münster Germany

Tel.: +49 (0) 251-682-1144 Fax: +49 (0) 251-682-2008

- · Email competent person: sds@kft.de
- · Information department: See supplier/manufacturer
- 1.4 Emergency telephone number:

GIZ-Nord, Göttingen, Germany

+49 551 19240

## **SECTION 2: Hazards identification**

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



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



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

- · Information concerning particular hazards for human and environment: Not applicable
- · Classification system:

The classification was made according to the latest editions of the EC-lists and expanded using company data and specialized literature.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms





GHS07

GHS09

- · Signal word Warning
- · Hazard-determining components of labelling: Eucalyptus oil

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pin-2(3)-ene

(R)-p-mentha-1,8-diene

· Hazard statements

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicablevPvB: Not applicable
- · VF VB. Not applicable

## **SECTION 3: Composition/information on ingredients**

- · 3.2 Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 8000-48-4 Eucalyptus oil 10-20%

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Sens. 1, H317

Minzöl 1-5%

Skin Irrit. 2, H315

CAS: 80-56-8 pin-2(3)-ene < 2.5%

EINECS: 201-291-9 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin

Sens. 1, H317

CAS: 5989-27-5 (R)-p-mentha-1,8-diene < 2.5%

EINECS: 227-813-5 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin

Index number: 601-029-00-7 Irrit. 2, H315; Skin Sens. 1B, H317

· Additional information: For the wording of the listed hazard phrases refer to section 16.

# **SECTION 4: First aid measures**

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

Change soiled clothing.

If symptoms persist or in case of doubt, seek medical advice.

· After inhalation:

Supply fresh air and be sure to call a doctor.

In case of unconsciousness, place patients on their side in a stable position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If symptoms persist, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call medical help immediately.

- · 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

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(decontamination, vital functions)

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## **SECTION 5: Firefighting measures**

#### · 5.1 Extinguishing media

#### · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents:

High volume water jet

No data available

### · 5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon dioxide (CO<sub>2</sub>)

Carbon monoxide (CO)

Formation of toxic gases is possible during heating or in case of fire.

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### **SECTION 6: Accidental release measures**

#### · 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective clothing.

Keep unprotected persons away.

Do not smoke - keep ignition sources away

## · 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

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

Do not allow to penetrate the ground/soil.

In case of seepage into the ground inform responsible authorities.

#### · 6.3 Methods and material for containment and cleaning up:

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

Ensure adequate ventilation.

Make sure to recycle or dispose of in suitable receptacles.

## 6.4 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.

# **SECTION 7: Handling and storage**

## · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

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· Information about protection against explosions and fires:



Keep ignition sources away - Do not smoke.

Observe the general rules of industrial fire protection.

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

Store container tightly sealed at a cool and dry place with sufficient ventilation.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from feed.

Refer to national regulations for storing hazardous chemicals.

· Further information about storage conditions:

Protect from heat and direct sunlight.

Protect from frost.

- · Recommended storage temperature: 5 °C 25 °C
- · Storage class: 10-13 other combustible and non-combustible substances
- · 7.3 Specific end use(s) No further relevant information available

# **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical systems: No further data; see section 7.
- · 8.1 Control parameters
- · Components 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 that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

After skin contact, cleanse skin thoroughly.

· Breathing equipment:



In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use a respiratory protective device that is independent of circulating air.

#### Filter P3

· Protection of hands:

Chemical resistant gloves (EN 374)

The glove material has to be impermeable and resistant to the product/substance/preparation.

Due to missing tests no recommendation to the glove material can be given for the product / preparation / chemical mixture. Selection of the glove material in consideration of the penetration times, rates of diffusion and the degradation

Material of gloves:

The selection of suitable gloves depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

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

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Eye protection: Tightly sealed gogglesBody protection: Protective work clothing

## **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information:

· Appearance:

· pH-value:

Form:
Colour:
Colour:
Colourless
Yellowish
Odour:
Menthol like
Not determined

· Change in condition:

Melting point/Melting range: Not determined Boiling point/Boiling range: 100 °C

· Flash point: Not determined

Flammability (solid, gaseous): Not applicable
 Ignition temperature: Not determined

• Decomposition temperature: Not determined

· Self ingnition temperature: Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

7.3-8

· Explosion limits:

Lower: Not determined Upper: Not determined • Oxidizing properties: Not determined • Vapour pressure: Not determined

Density at 20 °C:
 Relative density:
 Vapour density:
 Evaporation rate:
 0.97-1.03 g/cm³
 Not determined
 Not determined

· Solubility in / Miscibility with

Water: No data available

· Partition coefficient (n-octanol/water): Not determined

· Viscosity:

**dynamic:** Not determined **kinematic:** Not determined

• 9.2 Other information No further relevant information available

## **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available

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- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid Heat
- · 10.5 Incompatible materials: No further relevant information available
- · 10.6 Hazardous decomposition products:

No hazardous decomposition products if instructions for storage and handling are followed

## **SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values that are relevant for classification: No toxicity data are available for the product itself.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
- · 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 Based on available data, the classification criteria are not met.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

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

LC<sub>50</sub>/48h 0.577 mg/l (Daphnia magna) LC<sub>50</sub>/96 (static) 720 µg/l (Pimephales promelas) 0.85 mg/l (Daphnia magna) EC<sub>50</sub>/24h (static) EC<sub>50</sub>/48h (static) 0.36 mg/l (Daphnia magna) NOEC/72 h (static) 2.62 mg/l (Daphnia magna) 0.074 mg/l (Daphnia magna) NOEC (static)

48 h

# 80-56-8 pin-2(3)-ene

LC<sub>50</sub>/96h - mg/I (Cyprinus carpio)

LC50 > limit of solubility

NOEC - mg/I (Cyprinus carpio)

NOEC = limit of solubility

- · 12.2 Persistence and degradability No further relevant information available
- · 12.3 Bioaccumulative potential No further relevant information available · 12.4 Mobility in soil No further relevant information available
- · Ecotoxical effects:
- · Remark: Toxic to fish

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- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous to water According to appendix 4 of VwVwS dated 17.05.1999 (German regulation) Do not allow product to reach ground water, water course or sewage system.

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

Also poisonous for fish and plankton in water bodies

Toxic to aquatic organisms

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable
- · vPvB: Not applicable
- 12.6 Other adverse effects No further relevant information available

## **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation:

Must be recycled or disposed of according to the regulations. Waste has to be classified according to the European Waste Catalogue based on the identification of the waste generating source.

Disposal according to instructions of local authorities

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

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

### SECTION 44. Transport information

SECTION 14: Transport Information	
· 14.1 UN-Number · ADR, IMDG, IATA	UN3082
· 14.2 UN proper shipping name · ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE, alpha-PINENE)
· IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE, alpha-PINENE)
· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	<ul><li>9 (M6) Miscellaneous dangerous substances and articles.</li><li>9</li></ul>
·IMDG	
· Class	9 Miscellaneous dangerous substances and articles.

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· Label	9
IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Danger code (Kemler):	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Transport in bulk according to Annex II of Mar	
the IBC Code	Not applicable
Transport/Additional information:	
ADR	
Limited quantities (LQ):	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
_	Maximum net quantity per outer packaging: 1000 ml
Transport category:	3_
Tunnel restriction code:	E
IATA	
Remarks:	Packing Instructions:
	For Limited Quantities: Y 964 30 kg max. net/Pkg
	Passenger and cargo aircraft: 964 100 L max. net/Pkg
	Cargo aircraft only: 964 220 L max. net/Pkg
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	LIQUID, N.O.S. (DIPENTENE, ALPHA-PINENE), 9, III

# **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E2 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- · National regulations
- · Information about limitation of use: Take note of Directive 94/33/EC on the protection of young people at work.

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- · Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

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.

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.

Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 2 calculation method Skin Sens.1 calculation method

#### **Department issuing SDS:**

KFT Chemieservice GmbH Im Leuschnerpark. 3 64347 Griesheim Postfach 1451 64345 Griesheim Germany

Phone: +49 6155 8981 400 Fax: +49 6155 8981 500

Safety Data Sheet Service: +49 6155 8981 522

Contact: Barbara Stark

### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of

Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH) SVHC: Substances of Very High Concern

Flam. Liq. 3: Flammable liquids - Category 3

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Skin Sens. 1: Skin sensitisation – Category 1 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

Sources: MSDS of the supplier