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# **FUGFNOLUM**

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name: Eugenol

> Eugenolum Eugenol Eugénol Eugenol

N° CAS: 97-53-0 N° EC: 202-589-1

# 1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses: Active Pharmaceutical Ingredient or Excipient.

## 1.3 Details of the supplier of the safety data sheet

FRAVER NV Company:

> Keizershoek 336 2550 Kontich Belgium

Telephone: (+32) (0)3 457 11 76 Email: info@magis-pharma.be Web page: www.magis-pharma.be

## 1.4 Emergency telephone number

Public utility foundation: Belgisch Antigifcentrum Centre Antipoisons Belge

Telephone: (+32) (0)70 245 245 (Service 24/7)

Web page: www.antigifcentrum.be www.centreantipoisons.be

# **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 Classification of the substance/mixture

# Classification according to (EC) n° 1272/2008

Skin Sens. 1B H317 H319 Eye Irrit. 2

# 2.2 Label elements

#### Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s): Attention

Hazard statements:

H317 May cause an allergic skin reaction. Causes serious eye irritation. H319

Precautionary statements:

P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.

Wash thoroughly after handling. P264

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

P302+P352

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P305+P351+P338 IF ON SKIN: Wash with plenty of water.

P333+P313

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if

present and easy to do – continue rinsing.

P337+P313 If skin irritation or a rash occurs: Get medical advice/attention.

P501 If eye irritation persists, get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/inter-

national regulation

Additional applicable label

elements:

Not applicable.

#### 2.3 Other hazards

Product fails to meet PBT/vPvB criteria.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Product name: Eugenol

IUPAC name: 2-methoxy-4-(prop-2-enyl)phenol

Synonyms: Eugenic acid

Engenol

## 3.2 Mixtures

Not applicable.

# **SECTION 4: FIRST AID MEASURES**

#### 4.1 Description of first aid measures

General notes: The symptoms resulting from intoxication can appear after exposure, therefore, in

case of doubt, seek medical attention for direct exposure to the chemical product or

persistent discomfort, showing the MSDS of this product.

After inhalation: This product does not contain substances classified as hazardous for inhalation,

however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms

get worse or persist.

May cause an allergic skin reaction. In case of contact it is recommended to clean After skin contact:

the affected area thoroughly with water and neutral soan. In case of changes to the

the affected area thoroughly with water and neutral soap. In case of changes to the

skin (stinging, redness, rashes, blisters,...), seek medical advice with this MSDS.

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow After eye contact: the person affected to rub or close their eyes. If the injured person uses contact

the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be

consulted as quickly as possible with the MSDS of the product.

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In case of consumption, seek immediate medical assistance showing the MSDS for the product.

After ingestion:

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

Acute and delayed effects are indicated in sections 2 and 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Not available.

#### **SECTION 5: FIREFIGHTING MEASURES**

## 5.1 Extinguishing media

Suitable extinguishing media: Product is non-flammable under normal conditions of storage,

handling and use. In the case of combustion as a result of improper

handling, storage or use preferably use polyvalent powder

extinguishers (ABC powder), in accordance with the Regulation on

fire protection systems.

Unsuitable extinguishing media: It is NOT RECOMMENDED to use tap water as an extinguishing

agent.

#### 5.2 Special hazards arising from the substance/mixture

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

# **5.3 Advice for firefighters**

Surrounding fires: Act in accordance with the Internal Emergency Plan and the

Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an

aqueous medium.

Protection against fire: Depending on the magnitude of the fire it may be necessary to use

full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance

with Directive 89/654/EC.

Hazardous combustion products: Not available.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

# 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

## For emergency responders

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Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have protection.

#### 6.2 Environmental precautions

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

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

Recommendation: Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal, consult section 13.

#### 6.4 Reference to other sections

See sections 8 and 13.

#### **SECTION 7: HANDLING AND STORAGE**

#### 7.1 Precautions for safe handling

Precautions for safe handling: Keep containers hermetically sealed. Control spills and residues,

destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous

products are used.

Personal protection: Not available.

Technical protective measures: For the prevention of fires and explosions: Product is non-flammable

under normal conditions of storage, handling and use. It is

recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should

oe avoided.

To prevent ergonomic and toxicological risks: Do not eat or drink during the process, washing hands afterwards with suitable cleaning

products.

To prevent environmental risks: It is recommended to have absorbent material available at close proximity to the product (see

subsection 6.3).

Handling: Comply with the current legislation concerning the prevention of

industrial risks.

# 7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in a cool, dry, well-ventilated location.

Conditions for safe storage, including any

incompatibilities:

Storage – away from:

For additional information, see subsection 10.5.

Avoid sources of heat, radiation, static electricity and contact with

food. Protect from light.

## 7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

# 8.1 Control parameters

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DNEL (workers):

Dermal, long exposure: 6 mg/kg Inhalation, long exposure: 21,2 mg/m<sup>3</sup>

DNEL (general population):
Oral, long exposure: 3 mg/kg
Dermal, long exposure: 3 mg/kg
Inhalation, long exposure: 5,22 mg/m<sup>3</sup>

PNEC:

Soil: 0,015 mg/kg

Intermittent: 0,0113 mg/L Fresh water: 0,00113 mg/L Marine water: 0,000113 mg/L Sediment (Fresh water): 0,081 mg/kg Sediment (Marine water): 0,008 mg/kg

# 8.2 Exposure controls

#### Appropriate engineering control

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection, ...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

## **Individual protection measures**

Eye/face protection: Panoramic glasses against splash/projections: CEN Standard EN 166:2002 and EN

ISO 4007:2018. Clean daily and disinfect periodically according to the

manufacturer's instructions. Use if there is a risk of splashing.

Skin protection: Work clothing: Replace before any evidence of deterioration. For periods of

prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO

6530:2005, EN ISO 13688:2013, EN 464:1994.

Anti-slip work shoes: Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN

13832-1:2007.

Hand protection: Protective gloves against minor risks: Replace gloves in case of any sign of damage.

For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and

EN ISO 374-1:2016+A1:2018.

Respiratory protection: Filter mask for gases and vapours: CEN Standard EN 405:2002+A1:2010. Replace

when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

Thermal hazards: Not determined.

#### **Environmental exposure control**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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#### **FUGFNOLUM**

Appearance: Colourless or pale yellow, clear liquid, darkening on exposure to air.

Odour: Strong, characteristic odour of clove

Odour threshold: Not available. Not available. :Ha

Melting/freezing point: -11 °C Initial boiling point: 251 °C

Not available. Boiling range:

112 °C Flash point:

Not available. Evaporation rate: Not available. Flammability (solid/gas): Upper/lower flammability or Not available.

explosive limits:

3.634E-1 Pa (20 °C), 9.82 Pa (50 °C) Vapour pressure:

1060 kg/m<sup>3</sup> (20 °C) Vapour density: Relative density: 1.066 to 1.070

Freely soluble in ethanol (70% V/V), practically insoluble in glycerol, miscible with Solubility:

ethanol (96%), with glacial acetic acid, with methylene chloride and with fatty oils.

Solubility in water: Practically insoluble in water.

Partition coefficient  $2.7 - 2.8 (20 ^{\circ}C)$ 

(n-octanol/water):

Auto-ignition temperature: Not available. Decomposition temperature: Not available. Viscosity: Not available. Not available. Explosive properties: Not available. Oxidising properties:

#### 9.2 Other information

Not available.

## **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1 Reactivity

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

#### 10.2 Chemical stability

Chemically stable under the conditions of storage, handling and use.

## 10.3 Possibility of hazardous reactions

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

#### 10.4 Conditions to avoid

Not available.

#### 10.5 Incompatible materials

Avoid strong acids. Avoid alkalis or strong bases.

## 10.6 Hazardous decomposition products

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See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain

substances classified as dangerous for consumption. For more information see

section 3.

LD50 oral (rat): 2 300 mg/kg

Skin corrosion/irritation: Not available.

Serious eye damage/irritation: Produces eye damage after contact.

Respiratory/skin sensitisation: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

Germ cell mutagenicity: Not available. Carcinogenicity: IARC: Eugenol (3) Reproductive toxicity: Not available. Summary of evaluation of the

CMR properties:

Not available.

Based on available data, the classification criteria are not met, as it does not contain STOT-single exposure:

substances classified as dangerous for this effect. For more information see section

Based on available data, the classification criteria are not met, as it does not contain STOT-repeated exposure:

substances classified as dangerous for this effect. For more information see section

3.

Aspiration Hazard: Based on available data, the classification criteria are not met, as it does not contain

substances classified as dangerous for this effect. For more information see section

3.

Not available.

## 11.2 Additional information on potential adverse human health effects and symptoms

Eye contact: Causes serious eye irritation.

Skin contact: May cause an allergic skin reaction.

Inhalation: Based on available data, the classification criteria are not met. Ingestion: Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Aspiration:

## **SECTION 12: ECOLOGICAL INFORMATION**

#### 12.1 Toxicity

Acute toxicity:

LC50: 60.8 mg/L (96 h) (Fish: Oncorhynchus mykiss)

## 12.2 Persistence and degradability

Not available.

## 12.3 Bioaccumulative potential

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BCF: 31

Log P(o/w): 2.27 Potential: Moderate.

# 12.4 Mobility in soil

Not available.

# 12.5 Results of PBT and vPvB assessment

Product fails to meet PBT/vPvB criteria.

#### 12.6 Other adverse effects

Not available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

#### **SECTION 14: TRANSPORT INFORMATION**

| Transport information according to ADR/RID/IMDG/ICAO/IAT |
|--|
|--|

#### 14.1 UN Number

ADR/ RID(Land), IMDG(Sea),

Not classified.

IATA/ICAO (Air):

#### 14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air):

Not classified.

## 14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea), IATA/ICAO (Air):

Not classified.

#### 14.4 Packing group

ADR/ RID(Land),IMDG(Sea),

Not classified.

IATA/ICAO (Air):

## 14.5 Environmental hazards

ADR/RID(Land),IMDG(Sea),

Not classified.

IATA/ICAO (Air):

#### 14.6 Special precautions for user

Not available.

## 14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

#### 14.8 Additional transport information

This product is not regulated for transport.

#### **SECTION 15: REGULATORY INFORMATION**

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# **FUGFNOLUM**

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

Hazard symbol:

Risk phrases: R43: May cause sensitization by skin contact.

R36/38: Irritating to eyes and skin.

S23: Do not breathe gas/fumes/vapor/spray Safety phrases:

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S28: After contact with skin, wash immediately with plenty of water.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## **SECTION 16: OTHER INFORMATION**

#### 16.1 Changes since the previous version

Not applicable.

## 16.2 Abbreviations and acronyms used

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

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

EC (number): European Community (number)

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

IMDG: International Maritime Code for Dangerous Goods **IUPAC:** International Union of Pure and Applied Chemistry PBT: Persistent, Bioaccumulative and Toxic substance

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

STOT: Specific Target Organ Toxicity UN (number): United Nations (number)

vPvR. very Persistent and very Bioaccumalative

## 16.3 Key literature references/sources for data

European Chemicals Agency.

https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/

## 16.4 Method of classification in case of mixture

Not applicable.

# 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

## 16.6 Training advisement

Not available

# 16.7 Notice for user(s)

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The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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#### 16.8 Department issuing MSDS

Quality Department FRAVER NV

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