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

- Informations to product No. g432
- Product name:

Oleum Caryophylli

Clove oil
Nelkenöl

- Supplier of the Product / responsible Company:

Caesar & Loretz GmbH
Herderstr. 31
40721 Hilden
Tel.: 02103/4994-0
Fax: 02103/32360
e-mail: info@caelo.de

- Emergency telephone:

Giftinformationszentrum Mainz
Langenbeckstr. 1, 55131 Mainz
Tel.: 06131/19240

2 Hazards identification

- GHS-Labeling Elements:



- Signal word: Danger


- H-Phrases:

H226 Flammable liquid and vapour
H304 May be fatal if swallowed and enters airways
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation

- P-Phrases:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305 IF IN EYES:
P351 Rinse cautiously with water for several minutes.
P301 IF SWALLOWED
P331 Do NOT induce vomiting
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Asp. Tox. 1
Skin Irrit. 2
Skin Sens. 1
Eye Irrit. 2

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3 Composition / information on ingredients

• **Description:** Etheric oil, prepared from plant material by steam distillation or extraction.

CAS-No. Substance name

8000-34-8 Clove Oil

• **EINECS-No.:** 616-772-2

• **REACH Reg. No.:** (pre-registered)

• **INCI-Name:** Eugenia Caryophyllus Oil

Hazardous components:

CAS: 97-53-0, EINECS: 202-589-1, **Eugenol**, H319; H317, 50-100%

CAS: 93-28-7, EINECS: 202-235-6, **4-Allyl-2-methoxyphenylacetat**, H302; H315; H319; H335, 5-9,99%

4 First aid measures

- **after inhalation:** Fresh air. If irritation of respiratory ways continues, seek medical advice.
- **after skin contact:** Wash off with water, remove contaminated clothing.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If feeling unwell continuously seek medical advice.
- **after swallowing:** Seek medical advice immediately.

5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

6 Accidental release measures

• **Personal protective measures:**

Avoid contact with substance. Good ventilation of working place.

• **Environmental protective measures:**


Prevent from leaking into sewage water, ground water system or surface waters.

• **Methods for cleaning:** Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

• **Additional information:** Prevent from entering into drains, prevent from contaminating surface water or the ground water system.

7 Handling and storage

- **Handling:** Good ventilation / exhaustion of working place. Avoid formation of aerosols.
- **Informations to fire or explosion protection:** Good ventilation / exhaustion of working place and storage place. Keep away from ignition sources – Do not smoke.

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- **Storage:**
- **Requirements for storage areas and containers:**
Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C). Store at a good ventilated place. Avoid safely penetration into soil.
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** none

8 Exposure controls / personal protective equipment

- **Components with limit values that require monitoring at the workplace:** The product does not contain relevant quantities of substances with limit values that require monitoring at the workplace.
- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Only required if aerosols or vapours are generated.
- **Hand protection:** Protection gloves of rubber or latex or PVZ, for full contact 15 minutes maximum: Neopren. Suitable gloves for enduring contact, Material: Nitrile rubber/Nitrile latex Penetration time > 480 min., Thickness: 0,35 mm.
- **Eye protection:** Safety glasses

9 Physical and chemical properties


- **Form:** liquid
- **Colour:** yellow
- **Odour:** strong odour of cloves
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** not determined
- **Flash point:** ca. 60 °C
- **Density:** 1,030 – 1,063
- **Solubility in / Miscibility with**
- **Water:** not soluble
- **Refractory index:** 1,528 – 1,537

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**
No decomposition during appropriate use.
- **Materials to avoid:** Strong oxidizers, strong acids and bases.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on skin:** Irritant effect on skin and mucous membranes.
- **on eyes:** Slight irritant effect.

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- **Sensitization:** Sensitization by skin contact possible.

12 Ecological information

- **Ecotoxicological effects:**

Quantitative data are not available.

- **General advices:** Do not allow product to reach ground water, water course or sewage system even in small quantities. Danger to drinking water if even small quantities leak into the ground.
- **Water hazard class:** 2 (self classification): hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
- **Proper shipping name:** Flammable liquids, n.o.s., Essential oil.
- **Class:** 3
- **UN-number:** 1993
- **Packing group:** III
- **Classification code:** F1
- **Limited quantities (Table 3.4.6. ADR):** 5 Liter
- **Hazard classification number:** 30
- **Special provisions (Chapter 3.3 ADR):** 274, 640E
- **Additional informations for sea transport IMDG:**
- **EMS-No.:** F-E, S-E
- **Properties:** Fp=56°C

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS02, GHS07, GHS08
- **Signal word:** Danger

- **H-Phrases:**

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P351 Rinse cautiously with water for several minutes.

P301 IF SWALLOWED

P331 Do NOT induce vomiting

P315 Get immediate medical advice/attention

• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 3

• **VbF class:** AIII

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.