



Safety Data Sheet

according to 2001/58/EC

Nelkenöl (Eugenol)

Print date : 13.03.2006

Page 1 of 4

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation

Nelkenöl (Eugenol)

Further product name

Eugenol - zinc oxide combined pack.

Use of the substance/preparation

Eugenol-zinc oxide - cavity liner and temporary filling material.

1.2 Company/undertaking identification

Company name : Kettenbach GmbH & Co. KG
Street : Im Heerfeld 7
Place : D-35713 Eschenburg
Contact person : Quality Assurance Manager
e-mail : info@kettenbach.de
Internet : www.kettenbach.de

Telephone : + 49(0) 2774/705-0
Telefax : +49 (0)2774/705-33

2. Composition/information on ingredients

Chemical characterization Essential oil.

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
284-638-7	8000-34-8	Clove oil	85 %	Xn, Xi R38-65-21/22

Full text of each relevant R phrase can be found in heading 16.

3. Hazards identification

Classification

Symbols : Harmful, Irritant
R-phrases :
Irritating to skin.
Harmful: may cause lung damage if swallowed.
Harmful in contact with skin and if swallowed.

4. First aid measures

General information

Change contaminated clothing.
Symptoms of poisoning may develop several hours following exposure.
Victim should be under medical observation for at least 48 hours after exposure.

After inhalation

If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid. Subsequently consult an ophthalmologist.

After ingestion

Consult physician immediately.

Safety Data Sheet

according to 2001/58/EC

Nelkenöl (Eugenol)

Print date : 13.03.2006

Page 2 of 4

5. Fire-fighting measures

- Suitable extinguishing media** Extinguishing materials should be selected according to the surrounding area.
- Special protective equipment for fire-fighters** No special measures are necessary.

6. Accidental release measures

- Personal precautions** Provide adequate ventilation.
- Environmental precautions** Do not empty into drains or the aquatic environment.
- Methods for cleaning up/taking up** Collect mechanically.

7. Handling and storage

7.1 Handling

- Advice on safe handling** Use only in well-ventilated areas. Keep away from sources of ignition. No smoking.
- Advice on protection against fire and explosion** No special precautionary measures are necessary.

7.2 Storage

- Requirements for storage rooms and vessels** No special requirements.

8. Exposure controls/personal protection

8.1 Exposure limit values

8.2 Exposure controls

- Occupational exposure controls** See chapter 7. No further action is necessary.
- Protective and hygiene measures** Use only in well-ventilated areas.
When using do not eat, drink, smoke or sneeze.
Take off immediately all contaminated clothing
Wash hands when done working with material; at breaks, lunch, shift changes, etc.
Avoid contact with skin, eye and clothing.
- Hand protection** Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.
- Eye protection** Framed glasses.
- Skin protection** Lab apron.

Safety Data Sheet

according to 2001/58/EC

Nelkenöl (Eugenol)

Print date : 13.03.2006

Page 3 of 4

9. Physical and chemical properties

9.1 General information

Physical state : liquid
Colour : colourless - yellow
Odour : characteristic

9.2 Important health, safety and environmental information

Test method

pH-Value : -

Changes in the physical state

Flash point : ca. 110 °C
Density (at 20 °C) : 1,04 g/cm³
Water solubility : insoluble
at (20 °C)

10. Stability and reactivity

Conditions to avoid None by intended use.
Materials to avoid Oxidizing agents, strong.
Hazardous decomposition products irrelevant

11. Toxicological information

Acute toxicity Acute toxicity, oral:
LD50: 2.650 mg/kg rat.
Acute toxicity, dermal: LD50: > 5.000 mg/kg
LD50: >5.000 mg/kg rabbit.
Corrosive and irritant effects Irritant effect on the skin: irritant.
Irritant effect on the eye: Not an irritant.
Sensitising effects no danger of sensitization.

12. Ecological information

Ecotoxicity Aquatic toxicity EC50: (48h) 3,4 mg/l (daphnia)
Additional information Doesn't get into the sewage water as long as the process is carried out according to regulations. Leakage into the environment must be prevented.

13. Disposal considerations

Advice on disposal Dispose of waste according to applicable local, state, and federal regulations. Do not empty into drains.
Contaminated packaging Completely emptied packings can be re-cycled.

Safety Data Sheet

according to 2001/58/EC

Nelkenöl (Eugenol)

Print date : 13.03.2006

Page 4 of 4

14. Transport information

Land transport (ADR/RID)

Inland waterways transport

Marine transport

Air transport

Futher Information

Not a hazardous material with respect to these transportation regulations.

15. Regulatory information

15.1 Labelling

Indication of danger : Xn - Harmful



Xn - Harmful

Labelling according to EC-guidelines : The product is classified and marked according to EC-regulations or according to the corresponding national laws.

Hazardous component(s) to be indicated on label Clove oil

R phrases : 38 Irritating to skin.
21/22 Harmful in contact with skin and if swallowed.

S phrases : 62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
36/37 Wear suitable protective clothing and gloves.

15.2 National regulations

Water contaminating class : 2 - water contaminating

16. Other information

List of relevant R phrases

38 Irritating to skin.
65 Harmful: may cause lung damage if swallowed.
21/22 Harmful in contact with skin and if swallowed.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.