

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



73700 Clove Oil

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Revised edition: 19.05.2020

Version: 5

Printed: 12.03.2021

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Clove Oil

Article No.: 73700

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Industrial application

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

E-Mail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

H304
Cat.: 1
H317
Cat.: 1
H319
Cat.: 2

Aspiration hazard, hazard category 1
Skin sensitization, hazard category 1
Serious eye damage, hazard category 2
May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
Causes serious eye irritation.

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:



GHS07

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GHS08-2

Signal word:

Danger

Hazard designation:

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

Safety designation:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280 Wear protective gloves/ clothing/ eye/ face protection.
P301+P310 If swallowed: Immediately call a poison center or physician.
P313 Get medical attention.
P331 Do not induce vomiting.
P501 Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2. 3. Other Hazards

No information available.

3. Composition/Information on Ingredients

3. 1. Substance

3. 2. Mixture

Chemical Characterization: Essential oil. CAS-Nr. 84961-50-2; EINECS 284-638-7; REACH Reg. No. 01-2119971802-33-xxxx

Information on Components / Hazardous Ingredients:

Eugenol (H317-319)	70 - 95 %	CAS-Nr: 97-53-0 EINECS-Nr: 202-589-1 EC-Nr:
beta-Caryophyllene (H304-317)	5 - 15 %	CAS-Nr: 87-44-5 EINECS-Nr: 201-746 EC-Nr:
alpha-Humulene (H315-319-335)	1 - 10 %	CAS-Nr: 6753-98-6 EINECS-Nr: EC-Nr:
beta-Caryophyllene oxide (H411)	0.5 - 1 %	CAS-Nr: 1139-30-6 EINECS-Nr: 214-519-7 EC-Nr:

Additional information:

4. First Aid Measures

Description of the First Aid Measures

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4.1.

General information:

*Remove contaminated clothes immediately.
In case of an accident or if you feel unwell, seek medical advice immediately (show the label where possible).*

After inhalation:

*Supply fresh air and keep patient calm.
Get medical help.
In case of unconsciousness place patient stable in side position for transportation.*

After skin contact:

Remove contaminated clothing. Wash off immediately with plenty of water and soap.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes.

After ingestion:

*Rinse mouth with water and drink plenty of water.
Do not induce vomiting.*

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), extinguishing powder, dry sand.

Unsuitable extinguishing media:

Water

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

In case of fire: formation of carbon monoxide and dioxide.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device and full protective gear.

Further information:

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.
Careful when using carbon dioxide in closed areas: carbon dioxide*

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can displace oxygen.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

*Provide adequate ventilation. Keep away from sources of ignition.
Wear protective clothing.*

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent, saw dust) and dispose accordingly.

6.4. Reference to other Sections

See Section 13 for information on disposal.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

*Avoid contact with eyes.
Avoid the formation of aerosol.*

Hygienic measures:

Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in tightly sealed containers in a cool and well ventilated location.

Requirements for storage areas and containers:

*Avoid pollution of soil.
Keep container tightly closed.*

Information on fire and explosion protection:

Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.

Do not store together with: foodstuffs and animal feed.

Storage class:

10; Combustible liquids (TRGS 510)

Further Information:

7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

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8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Hydrocarbons, aliphatic C6-C14, aromatic C9-C14: 99 - 100 %

RCP: 50 mg/m³

Parameters to be controlled:

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation.

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Avoid contact with eyes.

Respiratory protection:

In case of long-term or higher exposure.

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Nitrile rubber (480 min, 0.4 mm)

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing.

Environmental precautions:

Do not allow entering sewerage system.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: liquid

Color: yellowish

Odor: characteristic

Odor threshold:

No information available.

pH-Value:

not determined

Melting temperature:

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not available

Boiling temperature:

not available

Flash point:

117°C

Evaporation rate:

No information available.

Flammability (solid, gas):

not available

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure:

not determined

Vapor density:

No information available.

Density:

1.028 - 1.053 g/cm³

Solubility in water:

insoluble

Coefficient of variation (n-Octanol/Water):

not determined

Auto-ignition temperature:

No information available.

Decomposition temperature:

No data available.

Viscosity, dynamic:

not available

Explosive properties:

not available

Oxidizing properties:

no information available

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

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Particle size:

Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Unknown.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid heat and sources of ignition.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

Strong oxidizing agents.

Acids and bases

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

No information available.

LD50, dermal:

No information available.

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Slight irritant effect.

Irritant effect on eyes:

Slight irritant effect

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

Slightly sensitizing.

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Mutagenicity:

No relevant data found.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No relevant data found.

Additional toxicological information:

12. Ecological Information

12.1. Aquatic Toxicity

No information available.

Fish toxicity:

Daphnia toxicity:

Bacteria toxicity:

Algae toxicity:

12.2. Persistency and Degradability

No information available.

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

No data available.

12.6. Other Adverse Effects

Water hazard class:

2 (German Regulation) (Assessment by list): hazardous.

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

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Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14.5. Environmental Hazards

None

14.6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14.7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14.8. Further Information

15. Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

2, hazardous for water (German Regulation)

Local regulations on chemical accidents:

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Employment restrictions:

The employment restrictions for young workers in accordance with the Youth Employment Protection Law are to be observed.

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.

Restriction and prohibition of application:

Industrial Safety Regulation: no flammable liquid

Technical instructions on air quality:

5.2.5.: Other organic substances.

15. 2. Chemical Safety Assessment

No information available.

15. 3. Further Information

Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.