



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

1.1 Product identifier

Trade name: Laurel oil, artificiale

Article number: 3314

Registration number Mixture - Registration numbers of the components, see Chapter 3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture

Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: sicherheit@carlroth.de

Further information obtainable from: Department Health, Safety and Environment

1.4 Emergency telephone number:

Poison Centre Munich

Telefon +49/(0)89 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3	H226	Flammable liquid and vapour.
Muta. 2	H341	Suspected of causing genetic defects.
Carc. 2	H351	Suspected of causing cancer.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Eye Dam. 1	H318	Causes serious eye damage.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R40-68-65: Limited evidence of a carcinogenic effect. Possible risk of irreversible effects. Harmful: may cause lung damage if swallowed.

Xi; Irritant

R36/38: Irritating to eyes and skin.

Xi; Sensitising

R43: May cause sensitisation by skin contact.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Trade name: Laurel oil, artificiale

(Contd. of page 1)

Hazard pictograms**Signal word** Danger**Hazard-determining components of labelling:**

Oil of eucalyptus
Laurel oil
thymus vulgaris oil white
Oil of geranium

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P281 Use personal protective equipment as required.
P273 Avoid release to the environment.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P308+P313 IF exposed or concerned: Get medical advice/attention.

Additional information:

-

2.3 Other hazards

All chemicals are potentially dangerous. They are therefore only be handled by specially trained personnel with the necessary care.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.























































SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

(Contd. on page 3)

Trade name: Laurel oil, artificiale

		(Contd. of page 2)
CAS: 8000-48-4 EINECS: 283-406-2	Oil of eucalyptus  Xn R65;  Xi R43;  N R51/53 R10  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Sens. 1, H317	25 - 50%
CAS: 8002-41-3 EINECS: 283-272-5	Laurel oil  Xn R40-68-65;  Xi R43;  N R51/53 R10  Flam. Liq. 3, H226;  Muta. 2, H341;  Carc. 2, H351;  Asp. Tox. 1, H304;  Aquatic Chronic 2, H411;  Skin Sens. 1, H317	10 - 25%
CAS: 8000-34-8 EINECS: 284-638-7	Oil of cloves  Xn R65;  Xi R36;  Xi R43  Asp. Tox. 1, H304;  Acute Tox. 4, H302;  Acute Tox. 4, H312;  Eye Irrit. 2, H319;  Skin Sens. 1, H317	5 - 10%
CAS: 8022-15-9 EINECS: 294-470-6	Oil of lavendin  Xi R43 R52/53-66  Skin Sens. 1, H317;  Aquatic Chronic 3, H412	5 - 10%
CAS: 84776-98-7 EINECS: 284-023-3	Oil of Thyme  C R34;  Xn R22-65;  Xi R43;  N R51/53 R10  Flam. Liq. 3, H226;  Asp. Tox. 1, H304;  Skin Corr. 1B, H314;  Aquatic Chronic 2, H411;  Acute Tox. 4, H302;  Skin Sens. 1, H317	2.5 - 5%
CAS: 94266-48-5 EC number: 304-455-9	Pine oil  Xi R38;  Xi R43;  N R50/53 R10  Flam. Liq. 3, H226;  Aquatic Acute 1, H400;  Aquatic Chronic 1, H410;  Skin Irrit. 2, H315;  Skin Sens. 1, H317	2.5 - 5%
CAS: 90082-51-2 EINECS: 290-140-0	Oil of geranium  Xn R65;  Xi R38-41;  Xi R43;  N R51/53  Asp. Tox. 1, H304;  Eye Dam. 1, H318;  Aquatic Chronic 2, H411;  Skin Irrit. 2, H315;  Skin Sens. 1, H317	2.5 - 5%

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

SECTION 4: First aid measures



4.1 Description of first aid measures

General information:

Remove any clothing soiled by the product.

After inhalation:

Supply fresh air and to be sure call for a doctor.

After skin contact:

Wash with water and soap.

Seek medical treatment in case of complaints.

After eye contact:

Rinse opened eye for 10 minutes under running water. Then consult a doctor.

(Contd. on page 4)

**Trade name: Laurel oil, artificiale**

(Contd. of page 3)

After swallowing:

Rinse out mouth and drink a glass of water. Do not induce vomiting.
In case of spontaneous vomiting: Risk of aspiration. Pulmonary failure possible.
Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.
CO₂, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents:

Water with full jet
Water

5.2 Special hazards arising from the substance or mixture

In the event of fire development of hazardous combustion gases or vapours possible.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.
Wear fully protective suit.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Prevent fire-fighting water from entering surface water or groundwater.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources.
Do not breathe vapour/spray.
Avoid contact with the eyes and skin.
Ensure adequate ventilation
Wear personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.
Keep contaminated washing water and dispose of appropriately.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).
Dispose of the material collected according to regulations.
Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

(Contd. on page 5)

Trade name: Laurel oil, artificiale

See Section 13 for disposal information.

(Contd. of page 4)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not spray on an open flame or other ignition source.
Keep containers, equipment and working place clean.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities:

No further data; see item 7.

8.1 Control parameters

Ingredients 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 valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

(Contd. on page 6)

Trade name: Laurel oil, artificiale

(Contd. of page 5)

Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

Required when vapours/aerosols are generated. Filter A (colour code: brown).

Protection of hands:**Protective gloves**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile, thickness >0,3 mm.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies 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

Value for the permeation: Level ≥ 6

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

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, thickness: ≥ 0.11 mm

Value for the permeation: Level ≥ 1

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information****Appearance:**

Form:	Fluid
Colour:	Yellow to brown.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.11.2014

Version number 1

Revision: 04.11.2014

Trade name: Laurel oil, artificiale

(Contd. of page 6)

Odour:	Characteristic
Odour threshold:	No information available.
pH-value:	No information available.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	46 °C
Flammability (solid, gaseous):	No information available
Ignition temperature:	No information available
Decomposition temperature:	No information available
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
Explosion limits:	
Lower:	No information available.
Upper:	No information available.
Oxidizing properties:	No information available.
Vapour pressure:	No information available
Density at 20 °C:	0.91 g/cm ³
Relative density	No information available.
Vapour density	No information available
Evaporation rate	No information available
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	No information available
Viscosity:	
Dynamic:	No information available.
Kinematic:	No information available.
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Fumes can combine with air to form an explosive mixture.

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 information available.

10.4 Conditions to avoid

Heat, flames and sparks

10.5 Incompatible materials:

No information available.

10.6 Hazardous decomposition products:

In case of fire: see item 5.

(Contd. on page 8)

Trade name: Laurel oil, artificiale

(Contd. of page 7)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

8000-48-4 Oil of eucalyptus		
Oral	LD ₅₀	2480 mg/kg (rat)
Dermal	LD ₅₀	2480 mg/kg (rabbit)
8000-34-8 Oil of cloves		
Oral	LD ₅₀	1370 mg/kg (rat)
Dermal	LD ₅₀	1200 mg/kg (rabbit)
90082-51-2 Oil of geranium		
Oral	LD ₅₀	>5000, mg/kg (rat)
Dermal	LD ₅₀	>2500 mg/kg (rabbit)
8007-46-3 thymus vulgaris oil white		
Oral	LD ₅₀	2840 mg/kg (rat)
Dermal	LD ₅₀	>5000 mg/kg (rabbit)

Primary irritant effect:

on the skin:

Irritant to skin and mucous membranes.

on the eye:

Irritating effect.

after inhalation:

Vapours may cause irritative symptoms.

Sensitisation:

Sensitisation possible through skin contact.

CMR effects:

Muta. 2, Carc. 2

Germ cell mutagenicity:

Suspected of causing genetic defects.

Carcinogenicity:

Suspected of causing cancer.

Reproductive toxicity:

No Information available.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Additional toxicological information:

We have no description of any toxic symptoms.

Further information:

The product should be handled with the care usual when dealing with chemicals.

(Contd. on page 9)



Trade name: Laurel oil, artificiale

(Contd. of page 8)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Fish toxicity:	
8000-34-8 Oil of cloves	
LC ₅₀	10.6 mg/l/48 h (Leuciscus idus)
8007-46-3 thymus vulgaris oil white	
LC ₅₀	16.1 mg/l/96 h (Onchorhynchus mykiss)
Daphnia toxicity:	
8000-34-8 Oil of cloves	
EC50	3.4 mg/l/24 h (Daphnia magna)
Bacterial toxicity:	
8000-34-8 Oil of cloves	
EC	3.5 mg/l (Pseudomonas fluorescens)

12.2 Persistence and degradability

No Information available.

12.3 Bioaccumulative potential

No Information available.

12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects:

Remark:

Do not allow to enter waters, waste water, or soil!

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Also poisonous for fish and plankton in water bodies.

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

Waste treatment methods

Recommendation

This material and its container must be disposed of as hazardous waste.

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Uncleaned packaging:

Recommendation:

Disposal according to official regulations.

(Contd. on page 10)

Trade name: Laurel oil, artificiale

(Contd. of page 9)

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA UN1169

14.2 UN proper shipping name

ADR 1169 EXTRACTS, AROMATIC, LIQUID (not viscous), ENVIRONMENTALLY HAZARDOUS

IMDG EXTRACTS, AROMATIC, LIQUID, MARINE POLLUTANT

IATA EXTRACTS, AROMATIC, LIQUID

14.3 Transport hazard class(es)

ADR, IMDG



Class 3 Flammable liquids.

Label 3

IATA



Class 3 Flammable liquids.

Label 3

14.4 Packing group

ADR, IMDG, IATA III

14.5 Environmental hazards:

Marine pollutant: Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

14.6 Special precautions for user

Warning: Flammable liquids.

Danger code (Kemler): 30

EMS Number: F-E,S-D

14.7 Transport in bulk according to Annex II of MARPOL73/78 and 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

Tunnel restriction code 3

D/E

(Contd. on page 11)



Trade name: Laurel oil, artificiale

(Contd. of page 10)

IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN1169, EXTRACTS, AROMATIC, LIQUID (not viscous), ENVIRONMENTALLY HAZARDOUS, 3, III

SECTION 15: Regulatory information

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

National regulations:

Information about limitation of use: Employment restrictions concerning juveniles must be observed.

Breakdown regulations:

Waterhazard 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.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- 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.
- H412 Harmful to aquatic life with long lasting effects.
- R10 Flammable.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R40 Limited evidence of a carcinogenic effect.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31



Printing date 04.11.2014

Version number 1

Revision: 04.11.2014

Trade name: Laurel oil, artificiale

(Contd. of page 11)

- R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.
 R68 Possible risk of irreversible effects.

Department issuing MSDS: Department: Health, Safety and Environment**Contact:** Herr Heine**Abbreviations and acronyms:**

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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

IMDG: International Maritime Code for Dangerous Goods

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

LD50*: Lethal Dose, 50 percent (Not relevant for classification)

LD50*: Lethal Concentration, 50 percent (Not relevant for classification)

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Muta. 2: Germ cell mutagenicity, Hazard Category 2

Carc. 2: Carcinogenicity, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

*** Data compared to the previous version altered.**