

# Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU



## alpha-Terpineol ≥60 %, for synthesis

article number: **4418**  
Version: **2.0 en**  
Replaces version of: 2017-01-30  
Version: (1)

date of compilation: 2017-01-30  
Revision: 2019-07-17

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

### 1.1 Product identifier

|                                 |  |
|---------------------------------|--|
| Identification of the substance | <b>alpha-Terpineol</b>   |
| Article number                  | 4418   |
| Registration number (REACH)     | It is not required to list the identified uses because the substance is not subject to registration according to REACH (< 1 t/a) |
| EC number                       | 202-680-6  |
| CAS number                      | 98-55-5  |

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

**Identified uses:** laboratory chemical  
laboratory and analytical use

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

Carl Roth GmbH + Co KG  
Schoemperlenstr. 3-5  
D-76185 Karlsruhe  
Germany

**Telephone:** +49 (0) 721 - 56 06 0  
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**e-mail:** [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)  
**Website:** [www.carlroth.de](http://www.carlroth.de)

Competent person responsible for the safety data sheet : Department Health, Safety and Environment

**e-mail (competent person)** : [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)

### 1.4 Emergency telephone number

| Name  | Street    | Postal code/city  | Telephone    | Website |
|---|-----------|-------------------|--------------|---------|
| National Poisons Information Service<br>City Hospital | Dudley Rd | B187QH Birmingham | 844 892 0111 |         |

Emergency information service **+49/(0)89 19240**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

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| Classification acc. to GHS |                                   |                           |                  |
|----------------------------|-----------------------------------|---------------------------|------------------|
| Section                    | Hazard class                      | Hazard class and category | Hazard statement |
| 3.2                        | skin corrosion/irritation         | (Skin Irrit. 2)           | H315             |
| 3.3                        | serious eye damage/eye irritation | (Eye Irrit. 2)            | H319             |

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

#### Signal word

Warning

#### Pictograms

GHS07



#### Hazard statements

H315 Causes skin irritation  
H319 Causes serious eye irritation

#### Precautionary statements

##### Precautionary statements - prevention

P280 Wear protective gloves/eye protection.

##### Precautionary statements - response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: **Warning**

Symbol(s)



## 2.3 Other hazards

There is no additional information.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                   |                                   |
|-------------------|-----------------------------------|
| Name of substance | alpha-Terpineol                   |
| EC number         | 202-680-6                         |
| CAS number        | 98-55-5                           |
| Molecular formula | C <sub>10</sub> H <sub>18</sub> O |

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Molar mass

154,3 g/mol

## SECTION 4: First aid measures

### 4.1 Description of first aid measures



#### General notes

Take off contaminated clothing.

#### Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

#### Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

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

After eye contact: Conjunctival redness of the eyes, Irritation,  
Following skin contact: Localised redness, oedema, pruritis and/or pain,  
After ingestion: Irritant effects,  
Following inhalation: Cough, pain, choking, and breathing difficulties

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

none

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media



#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings  
water spray, foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

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

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

#### Hazardous combustion products

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

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## 5.3 Advice for firefighters

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

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

#### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Provision of sufficient ventilation. Avoid: Aerosol or mist formation.

#### • Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep in a cool place.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice

##### • Ventilation requirements

Use local and general ventilation.

##### • Specific designs for storage rooms or vessels

Recommended storage temperature: 4 °C.

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## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

Data are not available.

#### Relevant DNELs/DMELs/PNECs and other threshold levels

##### • environmental values

| Endpoint | Threshold level | Environmental compartment    | Exposure time                |
|----------|-----------------|------------------------------|------------------------------|
| PNEC     | 68 µg/l         | freshwater                   | short-term (single instance) |
| PNEC     | 6,8 µg/l        | marine water                 | short-term (single instance) |
| PNEC     | 2,6 mg/l        | sewage treatment plant (STP) | short-term (single instance) |
| PNEC     | 1,85 mg/kg      | freshwater sediment          | short-term (single instance) |
| PNEC     | 0,185 mg/kg     | marine sediment              | short-term (single instance) |
| PNEC     | 0,329 mg/kg     | soil                         | short-term (single instance) |

### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection.

##### Skin protection



##### • hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

##### • type of material

NBR (Nitrile rubber)

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- **material thickness**

>0,11 mm

- **breakthrough times of the glove material**

>480 minutes (permeation: level 6)

- **other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

### Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

### Environmental exposure controls

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                 |                   |
|-----------------|-------------------|
| Physical state  | solid             |
| Colour          | colourless        |
| Odour           | characteristic    |
| Odour threshold | No data available |

#### Other physical and chemical parameters

|   |                                     |
|---|-------------------------------------|
| pH (value)                              | This information is not available.  |
| Melting point/freezing point            | 33 °C                               |
| Initial boiling point and boiling range | 218,9 °C at 1 atm                   |
| Flash point                             | 91 °C at 101,3 kPa                  |
| Evaporation rate                        | no data available                   |
| Flammability (solid, gas)               | These information are not available |

#### Explosive limits

|                                 |  |
|---------------------------------|--|
| • lower explosion limit (LEL)   | this information is not available              |
| • upper explosion limit (UEL)   | this information is not available              |
| Explosion limits of dust clouds | these information are not available            |
| Vapour pressure                 | 6,48 Pa at 23 °C                               |
| Density                         | 0,93 g/cm <sup>3</sup>                         |
| Vapour density                  | >1 (air = 1)                                   |
| Relative density                | Information on this property is not available. |

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### Solubility(ies)

Water solubility 2.870 mg/l at 23 °C

### Partition coefficient

n-octanol/water (log KOW) 2,6 (30 °C) (ECHA)

Auto-ignition temperature 275 °C at 994,1 hPa - ECHA

Decomposition temperature no data available

Viscosity not relevant (solid matter)

Explosive properties Shall not be classified as explosive

Oxidising properties none

## 9.2 Other information

Temperature class (EU, acc. to ATEX) T3 (Maximum permissible surface temperature on the equipment: 200°C)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Violent reaction with: Strong oxidiser

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Shall not be classified as acutely toxic.

| Exposure route | Endpoint | Value        | Species | Source |
|----------------|----------|--------------|---------|--------|
| oral           | LD50     | 4.300 mg/kg  | rat     | ECHA   |
| dermal         | LD50     | >2.000 mg/kg | rat     | ECHA   |

#### Skin corrosion/irritation

Causes skin irritation.

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### Serious eye damage/eye irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant

#### • Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### • Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

irritant effects

#### • If in eyes

conjunctivitis (pink eye)

#### • If inhaled

cough, pain, choking, and breathing difficulties

#### • If on skin

localised redness, erythema/eschar of the skin, causes skin irritation

### Other information

None

## SECTION 12: Ecological information

### 12.1 Toxicity

acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment.

#### Aquatic toxicity (acute)

| Endpoint | Value   | Species               | Source | Exposure time |
|----------|---------|-----------------------|--------|---------------|
| LC50     | 70 mg/l | fish                  | ECHA   | 96 h          |
| EC50     | 73 mg/l | aquatic invertebrates | ECHA   | 48 h          |
| ErC50    | 68 mg/l | algae                 | ECHA   | 72 h          |

#### Aquatic toxicity (chronic)

| Endpoint | Value     | Species        | Source | Exposure time |
|----------|-----------|----------------|--------|---------------|
| NOEC     | 25,7 mg/l | microorganisms | ECHA   | 28 d          |



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### 12.2 Process of degradability

The substance is readily biodegradable.  
Theoretical Oxygen Demand: 2,904 mg/mg  
Theoretical Carbon Dioxide: 2,853 mg/mg

| Process                   | Degradation rate | Time |
|---------------------------|------------------|------|
| carbon dioxide generation | 80 %             | 28 d |

### 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW) 2,6 (30 °C)

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Sewage disposal-relevant information

Do not empty into drains.

### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

|      |                            |  |
|------|----------------------------|--|
| 14.1 | UN number                  | (not subject to transport regulations)       |
| 14.2 | UN proper shipping name    | not relevant                                 |
| 14.3 | Transport hazard class(es) | not relevant                                 |
|      | Class                      | -  |
| 14.4 | Packing group              | not relevant not assigned to a packing group |

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**14.5 Environmental hazards** none (non-environmentally hazardous acc. to the dangerous goods regulations)

**14.6 Special precautions for user**  
There is no additional information.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
The cargo is not intended to be carried in bulk.

**14.8 Information for each of the UN Model Regulations**

- **Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)**  
Not subject to ADR, RID and ADN.
- **International Maritime Dangerous Goods Code (IMDG)**  
Not subject to IMDG.
- **International Civil Aviation Organization (ICAO-IATA/DGR)**  
Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**Relevant provisions of the European Union (EU)**

- **Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)**  
Not listed.
- **Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)**  
Not listed.
- **Regulation 850/2004/EC on persistent organic pollutants (POP)**  
Not listed.
- **Restrictions according to REACH, Annex XVII**  
not listed
- **Restrictions according to REACH, Title VIII**  
None.
- **List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list**  
not listed
- **Seveso Directive**

| 2012/18/EU (Seveso III) |                                       |   |       |
|-------------------------|---------------------------------------|---|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|                         | not assigned                          |   |       |

- **Directive 75/324/EEC relating to aerosol dispensers**

**Filling batch**

**Deco-Paint Directive (2004/42/EC)**

|                    |       |
|--------------------|-------|
| <b>VOC content</b> | 100 % |
|--------------------|-------|

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### Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

not listed

### Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

### Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

not listed

### Regulation 98/2013/EU on the marketing and use of explosives precursors

not listed

### Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

not listed

## National inventories

Substance is listed in the following national inventories:

| Country | National inventories | Status              |
|---------|----------------------|---------------------|
| AU      | AICS                 | substance is listed |
| CA      | DSL                  | substance is listed |
| CN      | IECSC                | substance is listed |
| EU      | ECSI                 | substance is listed |
| EU      | REACH Reg.           | substance is listed |
| JP      | CSCL-ENCS            | substance is listed |
| KR      | KECI                 | substance is listed |
| MX      | INSQ                 | substance is listed |
| NZ      | NZIoC                | substance is listed |
| PH      | PICCS                | substance is listed |
| TR      | CICR                 | substance is listed |
| TW      | TCSI                 | substance is listed |
| US      | TSCA                 | substance is listed |

### Legend

|            |   |
|------------|---|
| AICS       | Australian Inventory of Chemical Substances                             |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)  |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances               |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |
| TSCA       | Toxic Substance Control Act   |

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

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## SECTION 16: Other information

### 16.1 Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)  | Actual entry (text/value)  | Safety-relevant |
|---------|--|--|-----------------|
| 1.1     | Registration number (REACH):<br>This information is not available.             | Registration number (REACH):<br>It is not required to list the identified uses because the substance is not subject to registration according to REACH (< 1 t/a) | yes             |
| 2.1     |  | Classification acc. to GHS:<br>change in the listing (table)   | yes             |
| 2.1     | Remarks:<br>For full text of Hazard- and EU Hazard-statements: see SECTION 16. |  | yes             |
| 2.2     |  | Pictograms:<br>change in the listing (table)   | yes             |
| 2.2     |  | Hazard statements:<br>change in the listing (table)  | yes             |
| 2.2     |  | Precautionary statements - response:<br>change in the listing (table)  | yes             |
| 2.2     |  | Labelling of packages where the contents do not exceed 125 ml:<br>change in the listing (table)  | yes             |
| 8.1     | Occupational exposure limit values (Workplace Exposure Limits)                 | Occupational exposure limit values (Workplace Exposure Limits):<br>Data are not available.   | yes             |
| 8.1     |  | Occupational exposure limit values (Workplace Exposure Limits):<br>change in the listing (table)   | yes             |
| 8.1     |  | Relevant DNELs/DMELs/PNECs and other threshold levels  | yes             |
| 8.1     |  | • environmental values   | yes             |
| 8.1     |  | • environmental values:<br>change in the listing (table)   | yes             |
| 14.4    | Packing group:<br>not relevant   | Packing group:<br>not relevant not assigned to a packing group   | yes             |

### Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations  |
|-------|---|
| ADN   | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR   | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)                                       |
| CAS   | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)  |
| CLP   | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures  |
| CMR   | Carcinogenic, Mutagenic or toxic for Reproduction   |
| DGR   | Dangerous Goods Regulations (see IATA/DGR)  |
| DMEL  | Derived Minimal Effect Level  |
| DNEL  | Derived No-Effect Level   |

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| Abbr.    | Descriptions of used abbreviations  |
|----------|---|
| EINECS   | European Inventory of Existing Commercial Chemical Substances   |
| ELINCS   | European List of Notified Chemical Substances   |
| GHS      | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations   |
| IATA     | International Air Transport Association   |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)  |
| ICAO     | International Civil Aviation Organization   |
| IMDG     | International Maritime Dangerous Goods Code   |
| MARPOL   | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")   |
| NLP      | No-Longer Polymer   |
| PBT      | Persistent, Bioaccumulative and Toxic   |
| PNEC     | Predicted No-Effect Concentration   |
| REACH    | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID      | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| SVHC     | Substance of Very High Concern  |
| VOC      | Volatile Organic Compounds  |
| vPvB     | very Persistent and very Bioaccumulative  |

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- Dangerous Goods Regulations (DGR) for the air transport (IATA)
- International Maritime Dangerous Goods Code (IMDG)

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text                          |
|------|-------------------------------|
| H315 | causes skin irritation        |
| H319 | causes serious eye irritation |

### Disclaimer

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.