

**Acarosan Duo 0,1 %**

Print date 10.02.2023  
Revision date 10.02.2023  
Version 1.4 (en)  
replaces version of 30.08.2018 (1.3)

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

**1.1 Product identifier**

**Trade name/designation** Acarosan Duo 0,1 %  
**Art-Nr.** 73051 (500 ml), 73053 (1000 ml)

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

**Use of the substance/mixture**

For acarine and allergen-removing application on carpets, carpeted floors, upholstery, mattresses and other home textiles in house dust mite allergy.

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

**Supplier**

Davimed GmbH  
Bahnhofstr. 1-3  
D-23795 Bad Segeberg  
Telephone +49 (0)4551 808 60-10  
Telefax +49 (0)4551 808 60-60  
E-mail [info@davimed.de](mailto:info@davimed.de)  
Website <http://www.davimed.de>

Department responsible for information:

Telephone +49 (0)4551 808 60-0  
Telefax +49 (0)4551 808 60-60

**Manufacturer**

**1.4 Emergency telephone number**

Giftinformationszentrale Göttingen GIZ +49 (0)551 19 240

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Remark**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**2.2 Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Precautionary statements**

P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P262 Do not get in eyes, on skin, or on clothing.

**Special rules for supplemental label elements for certain mixtures**

EUH210 Safety data sheet available on request.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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**SECTION 3: Composition / information on ingredients**

**3.2 Mixtures**

**Hazardous ingredients**

| CAS No.    | EC No.    | Substance name  | Concentration      | Classification according to Regulation (EC) No 1272/2008 [CLP]   | SCL/ M/ ATE                                     |
|------------|-----------|---|--------------------|--|---|
| 67-63-0    | 200-661-7 | propan-2-ol   | > 2 ≤ 5 weight-%   | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336  |   |
| 68891-38-3 | 500-234-8 | Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts | < 5 weight-%       | Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Aquatic Chronic 3; H412; Achtung: Spezifische Konzentrationslimits!! (s. a. s.) | Eye Dam. 1; H318: 10%<br>Eye Irrit. 2; H319: 5% |
| 120-51-4   | 204-402-9 | benzyl benzoate   | > 0.5 < 1 weight-% | Acute Tox. 4 ; H302<br>Aquatic Acute 1; H400<br>Aquatic Chronic 2; H411  |   |

| REACH No.             | Substance name  |
|-----------------------|---|
| 01-2119457558-25-XXXX | propan-2-ol   |
| 01-2119488639-16-XXXX | Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts |
| 01-2119976371-33-XXXX | benzyl benzoate   |

**Remark**

\*\* Substance-specific limit values of the raw materials are taken into account for the classification of the product.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

Remove contaminated, saturated clothing immediately.  
In the event of persistent symptoms receive medical treatment.

**Following inhalation**

Provide fresh air.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.

**After eye contact**

Remove contact lenses.  
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.  
If irritation or discomfort occur, seek medical advice.

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**Following ingestion**

Rinse mouth immediately and drink plenty of water.

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

No data available

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

No data available

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam  
Dry extinguishing powder  
Carbon dioxide (CO<sub>2</sub>)  
Water spray jet

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

**Hazardous combustion products**

If leaking, respect slipping.  
Thermal decomposition may release toxic substances.

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Remove containers from the danger zone if possible without risk.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

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

**For non-emergency personnel**

Avoid contact with clothing, skin and eyes.  
Use personal protection equipment.  
Do not breathe aerosols.  
Special danger of slipping by leaking/spilling product.

**6.2 Environmental precautions**

Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter into surface water or drains.

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

**For containment**

Send in suitable containers for recovery or disposal.  
Suitable material for taking up:  
Sand  
Sawdust  
Universal binder  
Kieselguhr  
After taking up the material dispose according to regulation.

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**6.4 Reference to other sections**

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8  
Emergency telephone number: see section 1

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures**

Avoid prolonged / repeated skin contact.  
Avoid contact with the eyes.  
Do not breathe aerosols.  
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.  
No special fire protection measures are necessary.  
Do not inhale aerosols  
Avoid:  
Eye contact

**Advices on general occupational hygiene**

Thorough skin-cleansing after handling the product.  
Apply skin care products after work.  
When using do not eat, drink, smoke, sniff.  
Remove contaminated, saturated clothing immediately.

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

**Requirements for storage rooms and vessels**

Keep/Store only in original container.  
Keep container tightly closed.

**Storage class**

12 non-combustible liquids that cannot be assigned to any of the above storage classes

**Further information on storage conditions**

Keep container tightly closed in a cool, well-ventilated place.  
Protect from heat and direct solar radiation.

**7.3 Specific end use(s)**

No data available

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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**DNEL worker**

| CAS No. | Substance name | DNEL value            | DNEL type                       | Remark |
|---------|----------------|-----------------------|---------------------------------|--------|
| 67-63-0 | propan-2-ol    | 500 mg/m <sup>3</sup> | long-term inhalative (systemic) |        |
| 67-63-0 | propan-2-ol    | 888 mg/kg bw/day      | long-term dermal (systemic)     |        |
| 67-63-0 | propan-2-ol    | 500 mg/m <sup>3</sup> | long-term inhalative (systemic) |        |
| 67-63-0 | propan-2-ol    | 888 mg/kg bw/day      | long-term dermal (systemic)     |        |

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| CAS No.  | Substance name  | DNEL value            | DNEL type                          | Remark |
|----------|-----------------|-----------------------|------------------------------------|--------|
| 67-63-0  | propan-2-ol     | 500 mg/m <sup>3</sup> | long-term inhalative (systemic)    |        |
| 67-63-0  | propan-2-ol     | 888 mg/kg bw/day      | long-term dermal (systemic)        |        |
| 67-63-0  | propan-2-ol     | 26 mg/kg bw/day       | Long-term – oral, systemic effects |        |
| 67-63-0  | propan-2-ol     | 500 mg/m <sup>3</sup> | long-term inhalative (systemic)    |        |
| 67-63-0  | propan-2-ol     | 888 mg/kg bw/day      | long-term dermal (systemic)        |        |
| 120-51-4 | benzyl benzoate | 2.6 mg/kg bw/day      | long-term dermal (systemic)        |        |
| 120-51-4 | benzyl benzoate | 5.1 mg/m <sup>2</sup> | long-term inhalative (systemic)    |        |
| 120-51-4 | benzyl benzoate | 102 mg/m <sup>3</sup> | acute inhalative (systemic)        |        |

**DNEL Consumer**

| CAS No. | Substance name | DNEL value           | DNEL type                          | Remark |
|---------|----------------|----------------------|------------------------------------|--------|
| 67-63-0 | propan-2-ol    | 26 mg/kg bw/day      | Long-term – oral, systemic effects |        |
| 67-63-0 | propan-2-ol    | 89 mg/m <sup>3</sup> | long-term inhalative (systemic)    |        |
| 67-63-0 | propan-2-ol    | 319 mg/kg bw/day     | long-term dermal (systemic)        |        |
| 67-63-0 | propan-2-ol    | 26 mg/kg bw/day      | Long-term – oral, systemic effects |        |
| 67-63-0 | propan-2-ol    | 89 mg/m <sup>3</sup> | long-term inhalative (systemic)    |        |
| 67-63-0 | propan-2-ol    | 319 mg/kg bw/day     | long-term dermal (systemic)        |        |
| 67-63-0 | propan-2-ol    | 26 mg/kg bw/day      | Long-term – oral, systemic effects |        |
| 67-63-0 | propan-2-ol    | 89 mg/m <sup>3</sup> | long-term inhalative (systemic)    |        |
| 67-63-0 | propan-2-ol    | 319 mg/kg bw/day     | long-term dermal (systemic)        |        |
| 67-63-0 | propan-2-ol    | 89 mg/m <sup>3</sup> | long-term inhalative (systemic)    |        |
| 67-63-0 | propan-2-ol    | 319 mg/kg bw/day     | long-term dermal (systemic)        |        |

**PNEC**

| CAS No. | Substance name | PNEC Value | PNEC type                     | Remark |
|---------|----------------|------------|-------------------------------|--------|
| 67-63-0 | propan-2-ol    | 140.9 mg/L | aquatic, marine water         |        |
| 67-63-0 | propan-2-ol    | 140.9 mg/L | aquatic, freshwater           |        |
| 67-63-0 | propan-2-ol    | 140.9 mg/L | aquatic, intermittent release |        |
| 67-63-0 | propan-2-ol    | 552 mg/kg  | sediment, marine water        |        |

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| CAS No.  | Substance name  | PNEC Value  | PNEC type                     | Remark |
|----------|-----------------|-------------|-------------------------------|--------|
| 67-63-0  | propan-2-ol     | 552 mg/kg   | sediment, freshwater          |        |
| 67-63-0  | propan-2-ol     | 2251 mg/L   | sewage treatment plant (STP)  |        |
| 67-63-0  | propan-2-ol     | 140.9 mg/L  | aquatic, marine water         |        |
| 67-63-0  | propan-2-ol     | 140.9 mg/L  | aquatic, freshwater           |        |
| 67-63-0  | propan-2-ol     | 140.9 mg/L  | aquatic, intermittent release |        |
| 67-63-0  | propan-2-ol     | 552 mg/kg   | sediment, marine water        |        |
| 67-63-0  | propan-2-ol     | 552 mg/kg   | sediment, freshwater          |        |
| 67-63-0  | propan-2-ol     | 2251 mg/L   | sewage treatment plant (STP)  |        |
| 67-63-0  | propan-2-ol     | 140.9 mg/L  | aquatic, marine water         |        |
| 67-63-0  | propan-2-ol     | 140.9 mg/L  | aquatic, freshwater           |        |
| 67-63-0  | propan-2-ol     | 140.9 mg/L  | aquatic, intermittent release |        |
| 67-63-0  | propan-2-ol     | 552 mg/kg   | sediment, marine water        |        |
| 67-63-0  | propan-2-ol     | 552 mg/kg   | sediment, freshwater          |        |
| 67-63-0  | propan-2-ol     | 2251 mg/L   | sewage treatment plant (STP)  |        |
| 67-63-0  | propan-2-ol     | 140.9 mg/L  | aquatic, marine water         |        |
| 67-63-0  | propan-2-ol     | 140.9 mg/L  | aquatic, freshwater           |        |
| 67-63-0  | propan-2-ol     | 552 mg/kg   | sediment, marine water        |        |
| 67-63-0  | propan-2-ol     | 552 mg/kg   | sediment, freshwater          |        |
| 120-51-4 | benzyl benzoate | 0.002 mg/L  | aquatic, marine water         |        |
| 120-51-4 | benzyl benzoate | 0.017 mg/L  | aquatic, freshwater           |        |
| 120-51-4 | benzyl benzoate | 1.07 mg/kg  | sediment, marine water        |        |
| 120-51-4 | benzyl benzoate | 2.21 mg/kg  | soil                          |        |
| 120-51-4 | benzyl benzoate | 10.66 mg/kg | sediment, freshwater          |        |
| 120-51-4 | benzyl benzoate | 100 mg/L    | sewage treatment plant (STP)  |        |

**8.2 Exposure controls**

**Appropriate engineering controls**

**Technical measures to prevent exposure**

Ensure good ventilation, where necessary use fume hood.

**Personal protection equipment**

**Eye/face protection**

safety goggles

**Hand protection**

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitril, 0,4 mm, 60 min, 480 min. e.g. "Camatril Profi" (KCL GmbH, email: Vertrieb@kcl.de)

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

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

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**Body protection:**

Protective clothing

**Respiratory protection**

Not necessary if the ventilation is sufficient.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Physical state**

liquid

**Colour**

milky white

**Odour**

product-specific

**Safety relevant basis data**

|  | Value                   | Method | Source, Remark                        |
|--|-------------------------|--------|---------------------------------------|
| Odour threshold:   | not determined          |        |                                       |
| Melting point/freezing point                             | not determined          |        |                                       |
| Boiling point or initial boiling point and boiling range | not determined          |        |                                       |
| flammability   | not determined          |        |                                       |
| Lower and upper explosion limit                          | not determined          |        |                                       |
| Flash point  | not determined          |        |                                       |
| Auto-ignition temperature                                |                         |        | Product is not self igniting.         |
| Decomposition temperature                                |                         |        | No decomposition if used as directed. |
| pH   | in delivery state       |        | neutral                               |
| Viscosity  | not determined          |        |                                       |
| Solubility(ies)  | Water solubility (20°C) |        | soluble                               |
| Partition coefficient n-octanol/water (log value)        | not determined          |        |                                       |
| Vapour pressure  | not determined          |        |                                       |
| Density and/or relative density                          | not determined          |        |                                       |
| Relative vapour density                                  | not determined          |        |                                       |
| particle characteristics                                 | not determined          |        |                                       |

**9.2 Other information**

**Other safety characteristics**

|                      | Value | Method | Source, Remark                |
|----------------------|-------|--------|-------------------------------|
| Explosive properties |       |        | The product is not explosive. |

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**Other information**

see technical data sheet

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.  
Stable under normal conditions of use.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known.

**10.4 Conditions to avoid**

Heat and frost

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

Concerning possible decomposition products see section 5.

**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

**Animal data**

|                           | Effective dose | Method, Evaluation | Source, Remark |
|---------------------------|----------------|--------------------|----------------|
| Acute oral toxicity       | not determined |                    |                |
| Acute dermal toxicity     | not determined |                    |                |
| Acute inhalation toxicity | not determined |                    |                |

**Skin corrosion/irritation**

**Animal data**

| Result / Evaluation | Method | Source, Remark |
|---------------------|--------|----------------|
| non-irritant.       |        |                |

**Serious eye damage/irritation**

**Animal data**

| Result / Evaluation                                    | Method | Source, Remark |
|--|--------|----------------|
| slightly irritant but not relevant for classification. |        |                |

**Sensitisation to the respiratory tract**

not determined



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**Skin sensitisation**

not determined

**Germ cell mutagenicity**

not determined

**Carcinogenicity**

not determined

**Reproductive toxicity**

not determined

**STOT-single exposure**

not determined

**STOT-repeated exposure**

not determined

**Aspiration hazard**

not determined

**11.2 Information on other hazards**

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

|                                 | Effective dose | Method,Evaluation | Source, Remark  |
|---------------------------------|----------------|-------------------|---|
| Endocrine disrupting properties |                |                   | Based on available data, the classification criteria are not met. |

**Other information**

The product should be handled with the care usual when dealing with chemicals. Further hazardous properties can not be excluded.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

|   | Effective dose | Method,Evaluation | Source, Remark |
|---|----------------|-------------------|----------------|
| Acute (short-term) fish toxicity                                | not determined |                   |                |
| Chronic (long-term) fish toxicity                               | not determined |                   |                |
| Acute (short-term) toxicity to crustacea                        | not determined |                   |                |
| Chronic (long-term) toxicity to aquatic invertebrate            | not determined |                   |                |
| Acute (short-term) toxicity to algae and cyanobacteria          | not determined |                   |                |
| Chronic (long-term) toxicity to aquatic algae and cyanobacteria | not determined |                   |                |
| Toxicity to other aquatic plants/organisms                      | not determined |                   |                |
| Toxicity to microorganisms                                      | not determined |                   |                |

**12.2 Persistence and degradability**

**Assessment/classification**

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

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**12.3 Bioaccumulative potential**

**Assessment/classification**

Accumulation in organisms is not expected.

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Endocrine disrupting properties**

|                                 | Effective dose | Method, Evaluation | Source, Remark  |
|---------------------------------|----------------|--------------------|---|
| Endocrine disrupting properties |                |                    | Based on available data, the classification criteria are not met. |

**12.7 Other adverse effects**

**Additional ecotoxicological information**

**Additional information**

Do not allow uncontrolled discharge of product into the environment.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Appropriate disposal / Product**

Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)".  
This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the German federal states.

**Appropriate disposal / Package**

Disposal in accordance with local regulations.  
Completely emptied packages can be recycled.  
Totally emptied packaging may be treated as household waste.

**Remark**

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

**\* SECTION 14: Transport information**

|                                 | Land transport (ADR/RID) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---------------------------------|--------------------------|----------------------|------------------------------------|
| 14.1 UN number or ID number     | -                        | -                    | -                                  |
| 14.2 UN proper shipping name    | -                        | -                    | -                                  |
| 14.3 Transport hazard class(es) | -                        | -                    | -                                  |
| 14.4 Packing group              | -                        | -                    | -                                  |
| 14.5 Environmental hazards      | No                       | No                   | No                                 |

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**14.6 Special precautions for user**

No data available

**14.7 Maritime transport in bulk according to IMO instruments**

No data available

\* **All transport carriers**

No dangerous good in sense of these transport regulations.

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**SECTION 15: Regulatory information**

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

No data available

**15.2 Chemical Safety Assessment**

No data available

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\* **SECTION 16: Other information**

**Indication of changes**

\* Data changed compared with the previous version

**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Flam. Liq. 2: Flammable Liquids, Category 2

Eye Dam. 1: Serious eye damage, Category 1

Eye Irrit. 2: Eye irritation, Category 2

STOT SE 3, H336: Specific target organ toxicity (single exposure), Category 3 (narcotic effects)

Skin Irrit. 2: Skin irritation, Category 2

Acute Tox. 4, H302: Acute Toxicity (oral), Category 4

Aquatic Acute 1: Short-term (acute) aquatic hazard, Category 1

Aquatic Chronic 1: Long-term (chronic) aquatic hazard, Category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, Category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

ECHA: European Chemicals Agency

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

REACH: Registration, Evaluation and Authorization of Chemicals

DNEL: derived no-effect level

PNEC: Predicted No Effect Concentration

PBT: persistent and bioaccumulative and toxic

vPvB: very persistent, very bioaccumulative

SVHC: Substance of Very High Concern

WGK: water hazard class

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

\* **Key literature references and sources for data**

Data sheets of the sub-supplier.

European Chemicals Agency (ECHA).

Umweltbundesamt Berlin (Wassergefährdungsklassen)

**Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]**

The classification of the mixture was carried out following the calculation method according to the CLP Regulation (1272/2008).

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**Training advice**

See technical data sheet.

**Additional information**

National and local regulations concerning chemicals shall be observed.

The national special regulations must be implemented by each user on his own responsibility!

Please observe the following disclaimer! Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

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.

**Relevant H- and EUH-phrases (Number and full text)**

|      |  |
|------|--|
| H225 | Highly flammable liquid and vapour.                |
| H302 | Harmful if swallowed.                              |
| H315 | Causes skin irritation.                            |
| H318 | Causes serious eye damage.                         |
| H319 | Causes serious eye irritation.                     |
| H336 | May cause drowsiness or dizziness.                 |
| H400 | Very toxic to aquatic life.                        |
| H411 | Toxic to aquatic life with long lasting effects.   |
| H412 | Harmful to aquatic life with long lasting effects. |

**Indication of changes**

\* Data changed compared with the previous version