

Acarosan Duo 0,1 %

Print date 16.12.2025
Revision date 16.12.2025
Version 1.5 (en)
replaces version of 10.02.2023 (1.4)

*** 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
Website <http://www.davimed.de>

Department responsible for information:

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

1.4 Emergency telephone number

Davimed GmbH +49 (0)4551 80860-10
Only available during office hours.

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**

3.1 Substances

not applicable

*** 3.2 Mixtures**

Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
67-63-0	200-661-7	603-117-00-0	propan-2-ol	> 2 ≤ 5 weight-%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	ATE(oral): 5840 mg/kg ATE(dermal): 16400 mg/kg ATE(inhalation gas): 37.5 mg/L
68891-38-3	500-234-8		Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	< 5 weight-%	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	Eye Dam. 1;H318: 10% Eye Irrit. 2;H319: 5%
120-51-4	204-402-9	607-085-00-9	benzyl benzoate	> 0.5 < 1 weight-%	Acute Tox. 4 ; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	ATE(dermal): > 2000 mg/kg ATE(oral): 1500 mg/kg

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

Rinse immediately carefully and thoroughly with eye-bath or water.
Remove contact lenses.
If irritation or discomfort occur, seek medical advice.

Following ingestion

Rinse mouth immediately and drink plenty of water.

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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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water
alcohol resistant foam
Dry extinguishing powder
Carbon dioxide (CO₂)

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.
Protective clothing.

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.

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

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
Skin 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.

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

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

*** 8.1 Control parameters**

Occupational exposure limit values

CAS No	EC No	Substance name	occupational exposure limit value
67-63-0	200-661-7	Propan-2-ol	200 [ml/m ³ (ppm)] Short-term(ml/m ³) 400 (1) (1) 15 minutes reference period (IE)
67-63-0	200-661-7	Propan-2-ol	400 [ml/m ³ (ppm)] 999 [mg/m ³] Short-term(ml/m ³) 500 Short-term(mg/m ³) 1250 (UK)

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* DNEL worker				
CAS No	Substance name	DNEL value	DNEL type	Remark
120-51-4	benzyl benzoate	102 mg/m ³	acute inhalative (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 ²	long-term inhalative (systemic)	
67-63-0	propan-2-ol	26 mg/kg bw/day	Long-term – oral, systemic effects	
67-63-0	propan-2-ol	888 mg/kg bw/day	long-term dermal (systemic)	
67-63-0	propan-2-ol	888 mg/kg bw/day	long-term dermal (systemic)	
67-63-0	propan-2-ol	888 mg/kg bw/day	long-term dermal (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 ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	500 mg/m ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	500 mg/m ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	500 mg/m ³	long-term inhalative (systemic)	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	2750 mg/kg bw/day	long-term dermal (systemic)	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	175 mg/m ³	long-term 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	26 mg/kg bw/day	Long-term – oral, systemic effects	
67-63-0	propan-2-ol	26 mg/kg bw/day	Long-term – oral, systemic effects	
67-63-0	propan-2-ol	319 mg/kg bw/day	long-term dermal (systemic)	
67-63-0	propan-2-ol	319 mg/kg bw/day	long-term dermal (systemic)	
67-63-0	propan-2-ol	319 mg/kg bw/day	long-term dermal (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 ³	long-term inhalative (systemic)	

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CAS No	Substance name	DNEL value	DNEL type	Remark
67-63-0	propan-2-ol	89 mg/m ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	89 mg/m ³	long-term inhalative (systemic)	
67-63-0	propan-2-ol	89 mg/m ³	long-term inhalative (systemic)	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	15 mg/kg bw/day	Long-term – oral, systemic effects	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	1650 mg/kg bw/day	long-term dermal (systemic)	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	52 mg/m ³	long-term inhalative (systemic)	

*

PNEC

CAS No	Substance name	PNEC Value	PNEC type	Remark
120-51-4	benzyl benzoate	0.017 mg/L	aquatic, freshwater	
120-51-4	benzyl benzoate	0.002 mg/L	aquatic, marine water	
120-51-4	benzyl benzoate	10.66 mg/kg	sediment, freshwater	
120-51-4	benzyl benzoate	1.07 mg/kg	sediment, marine water	
120-51-4	benzyl benzoate	100 mg/L	sewage treatment plant (STP)	
120-51-4	benzyl benzoate	2.21 mg/kg	soil	
67-63-0	propan-2-ol	140.9 mg/L	aquatic, freshwater	
67-63-0	propan-2-ol	140.9 mg/L	aquatic, freshwater	
67-63-0	propan-2-ol	140.9 mg/L	aquatic, freshwater	
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	140.9 mg/L	aquatic, intermittent release	
67-63-0	propan-2-ol	140.9 mg/L	aquatic, intermittent release	
67-63-0	propan-2-ol	140.9 mg/L	aquatic, marine water	
67-63-0	propan-2-ol	140.9 mg/L	aquatic, marine water	
67-63-0	propan-2-ol	140.9 mg/L	aquatic, marine water	
67-63-0	propan-2-ol	140.9 mg/L	aquatic, marine water	
67-63-0	propan-2-ol	552 mg/kg	sediment, freshwater	
67-63-0	propan-2-ol	552 mg/kg	sediment, freshwater	
67-63-0	propan-2-ol	552 mg/kg	sediment, freshwater	
67-63-0	propan-2-ol	552 mg/kg	sediment, freshwater	
67-63-0	propan-2-ol	552 mg/kg	sediment, marine water	
67-63-0	propan-2-ol	552 mg/kg	sediment, marine water	
67-63-0	propan-2-ol	552 mg/kg	sediment, marine water	
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	2251 mg/L	sewage treatment plant (STP)	
67-63-0	propan-2-ol	2251 mg/L	sewage treatment plant (STP)	
67-63-0	propan-2-ol	2251 mg/L	sewage treatment plant (STP)	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	0.24 mg/L	aquatic, freshwater	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	5.45 mg/kg soil dw	sediment, freshwater	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	0.946 mg/kg soil dw	sediment, marine water	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	0.024 mg/L	sediment, marine water	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	10000 mg/L	sewage treatment plant (STP)	
68891-38-3	Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts	0.946 mg/kg soil dw	soil	

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

Suitable material:

NBR (Nitrile rubber)

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.

Body protection:

Protective clothing

Respiratory protection

Not necessary if the ventilation is sufficient.

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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.

Other information

see technical data sheet

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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.

Additional information

As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

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	CAS No67-63-0 propan-2-ol 5840 mg/kg Species Rat	OECD 401	
	CAS No120-51-4 benzyl benzoate LD50: 1500 mg/kg Species Rat		
Acute dermal toxicity	CAS No67-63-0 propan-2-ol 16400 mg/kg Species Rabbit	OECD 402	
	CAS No68891-38-3 Alcohols, C12-14(even numbered), ethoxylated < 2.5 EO, sulfates, sodium salts LD50: > 2000 mg/kg Species Rat		

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	Effective dose	Method, Evaluation	Source, Remark
Acute inhalation toxicity	CAS No67-63-0 propan-2-ol Acute inhalation toxicity (gas) 37.5 mg/L Species Rat Exposure time 4 h	OECD 403	

Skin corrosion/irritation

Assessment/classification

No irritant effect known.

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
CAS No67-63-0 propan-2-ol Irritant.		

Assessment/classification

Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract

Assessment/classification

No sensitizing effects known.

Skin sensitisation

Assessment/classification

No sensitising effect known.

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

Not classified

STOT SE 3

Irritation to respiratory tract

Assessment/classification

Not classified

Narcotic effects

Assessment/classification

Not classified

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STOT-repeated exposure

Other information

No effects known.

Aspiration hazard

Remark

No classification in terms of aspiration.

11.2 Information on other hazards

Information on other hazards

	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	CAS No67-63-0 propan-2-ol LC50: 9640 mg/L Species Pimephales promelas (fathead minnow) Test duration 96 h		
	CAS No120-51-4 benzyl benzoate LC50: 2.32 mg/L Species Danio rerio (zebrafish) Test duration 96 h		
Chronic (long-term) fish toxicity	CAS No120-51-4 benzyl benzoate NOEC 0.023 mg/L Species Danio rerio (zebrafish) Test duration 35 d	OECD 210	
Acute (short-term) toxicity to crustacea	CAS No67-63-0 propan-2-ol EC50 > 100 mg/L Species Daphnia magna (Big water flea) Test duration 48 h		

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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	CAS No120-51-4 benzyl benzoate EC50 3.09 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
Acute (short-term) toxicity to algae and cyanobacteria	CAS No67-63-0 propan-2-ol NOELR > 1000 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	CAS No120-51-4 benzyl benzoate EC50 > 10000 mg/L Species activated sludge Test duration 3 h	OECD 209	

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.

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

Discharge into the environment must be avoided.
Ecological data for the mixture are not available.

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* **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	-	-	-

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.

* **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

* **SECTION 16: Other information**

* **Indication of changes**

* Data changed compared with the previous version

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* **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

SCL: Specific concentration limit

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate

EC50: Effective Concentration 50%

DNEL: derived no-effect level

IC50: Inhibition Concentration 50 %

LC50: Lethal (fatal) Concentration 50%

LD50: Lethal (fatal) Dose 50%

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

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).

Training advice

See technical data sheet for more information.

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.

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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.

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Indication of changes

* Data changed compared with the previous version