

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.09.2023

Version number 05-01 (replaces version 05-00)

Revision: 19.09.2023

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

#### 1.1 Product identifier

Trade name: **DELTA® 1K-Lack-Härter / T.B.S.**

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

No further relevant information available.

**Application of the substance / the mixture** Hardening agent/ Curing agent

#### Uses advised against

This product is not suitable for uses other than those specified in the "Use of the substance/mixture". If your particular manner of use is not listed, please contact the creator of this safety data sheet.

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

##### Manufacturer/Supplier:

Dörken Coatings GmbH & Co. KG  
Wetterstr. 58  
58313 Herdecke  
Germany  
www.doerkencoatings.de

Phone: +49 2330 63 243

Fax: +49 2330 63 100 243

**Further information obtainable from:** msds.coatings@doerken.de

#### 1.4 Emergency telephone number:

Emergency CONTACT (24-Hour-Number):

GBK GmbH +49 (0)6132-84463

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

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### 2.2 Label elements

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

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

#### Hazard pictograms



GHS02 GHS07 GHS08

**Signal word** Danger

#### Hazard-determining components of labelling:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Isophorondiisocyanat, homopolymer

2,6-dimethylheptan-4-one

4,6-dimethylheptan-2-one

3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

#### Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H304 May be fatal if swallowed and enters airways.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

P301+P310 IF SWALLOWED: Immediately call a doctor.

P331 Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P312 Call a doctor if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

Vapours of the product are heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Contains isocyanates: Avoid use with preparations of this kind by allergy, asthma and chronic illness of the respiration system.

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

EC number: 918-481-9 Reg.nr.: 01-2119457273-39-xxxx	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1, H304, EUH066	25-50%
EC number: 931-312-3 Reg.nr.: 01-2119488734-24-xxxx	Isophorondiisocyanat, homopolymer Skin Sens. 1B, H317; STOT SE 3, H335	10-25%
CAS: 108-83-8 EINECS: 203-620-1 Reg.nr.: 01-2119474441-41-xxxx	2,6-dimethylheptan-4-one Flam. Liq. 3, H226; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 10 %	≥10-≤25%
CAS: 19549-80-5 EINECS: 243-148-3	4,6-dimethylheptan-2-one Flam. Liq. 3, H226; STOT SE 3, H335	≥1-≤25%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-Butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	1-10%
CAS: 4098-71-9 EINECS: 223-861-6 Reg.nr.: 01-2119490408-31-xxxx	3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	<0.1%

#### Additional information:

All hydrocarbons used comply with note P (less than 0.1% benzene) of the CLP regulation.

For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information:

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

Soiled, soaked clothes immediately take off.

Never give anything by mouth to an unconscious person.

##### After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

##### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

##### After eye contact:

Remove contact lenses. Keep eye lids open and rinse plentifully for at least 10 minutes with clean running water. Subsequently consult an ophthalmologist.

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In case of troubles or persistent symptoms, consult an ophthalmologist.

**After swallowing:**

Rinse mouth thoroughly with water.

Risk of aspiration!

Do not induce vomiting; call for medical help immediately.

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

Allergic reactions

Inhalation may cause an irritating effect to mucous membranes.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Headache, dizziness, numbness, sickness/nausea, tiredness, stunning effect, dry skin, allergic reactions.

**Hazards**

When swallowed and vomited immediately, aspiration into the lungs may occur resulting in chemical pneumonia or suffocation.

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

Symptomatic treatment.

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

Extinguishing powder, foam, carbon dioxide.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Flammable liquid and vapour.

Can form explosive gas-air mixtures.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Fire will produce dangerous decomposition products like dense, black smoke, carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO) and nitrogen oxides (NO<sub>x</sub>). Inhalation may cause serious health damage.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources and ensure a well-ventilated room. Do not inhale fumes.

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Avoid contact with skin and eyes.

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**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid the formation of ignitable and explosion- hazardous solution vapours.

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Material can become charged elektrostatically. Anti-static clothing including shoes are recommended.

Avoid contact with skin and eyes as well as inhalation of vapours.

Avoid the handling of incompatible substances and mixtures. Incompatible substances: see section 10.5

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Use explosion-proof apparatus / fittings and spark-proof tools.

Handle only outside or in explosion protected rooms.

Fumes can combine with air to form an explosive mixture.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Make sure spills can be contained, e.g. in sump pallets.

Protect from frost, heat and direct sunlight. Keep tightly closed, cool and dry.

**Information about storage in one common storage facility:**

Note the rules for common storage in accordance with TRGS 510 - "Storage of hazardous substances in transportable containers".

Store away from foodstuffs.

**Further information about storage conditions:** None.**Storage class:** 3**7.3 Specific end use(s)** No further relevant information available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Ingredients with limit values that require monitoring at the workplace:

##### 108-83-8 2,6-dimethylheptan-4-one

MAK (Germany) | vgl. Abschn. IIb

##### 123-86-4 n-Butyl acetate

AGW (Germany) | Long-term value: 300 mg/m<sup>3</sup>, 62 ppm  
2(I);AGS, Y

IOELV (EU) | Short-term value: 723 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 241 mg/m<sup>3</sup>, 50 ppm

##### 4098-71-9 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

AGW (Germany) | Long-term value: 0.046 mg/m<sup>3</sup>, 0.005 ppm  
1;=2=(I);DFG, 11, 12, Sa

#### Regulatory information

AGW (Germany): TRGS 900

IOELV (EU): (EU) 2019/1831

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls** Provide good ventilation and/or an exhaust system in the work area.

#### Appropriate engineering controls

Ensure a good ventilation. This can be achieved by local exhaustion or general exhaust air.

#### Individual protection measures, such as personal protective equipment

##### General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing

Do not inhale gases / fumes / aerosols.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

In case of suffering from allergy, asthma and chronic illness of the respiratory system avoid use of this product.

##### Respiratory protection:

Use always breathing protection with splashing medium.

Use combination filter type A(-P2) according to EN 141.

##### Hand protection

Work with gloves. Gloves must be inspected for damage before use. Defective or damaged gloves must not be used. Gloves must satisfy the specifications of EC directive 89/686/EWG and standard EN 374.

It is recommended to use long gloves to minimize contact by splashing.

##### Material of gloves

Multi-layer glove - PE / EVAL / PE

(PE = polyethylene, EVAL = ethylene-vinyl alcohol copolymer)

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

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the application.

### Penetration time of glove material

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

### Eye/face protection

Wear protective goggles to protect against splashing.

Have eye wash bottle or eye rinse ready at work place.

Professional Cooperative Rules - BGR 192 Use of eye and face protection

**Body protection:** Solvent resistant protective clothing

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Physical state

Fluid

#### Colour:

Colourless

#### Odour:

Ester-like

#### Odour threshold:

For mixtures not applicable.

#### Melting point/Freezing point:

Not security-related.

#### Boiling point or initial boiling point and boiling range

127 °C (123-86-4 n-Butyl acetate)

#### Flammability

Flammable.

#### Lower and upper explosion limit

#### Lower:

0.6 Vol % (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

#### Upper:

8.5 Vol % (123-86-4 n-Butyl acetate)

#### Flash point:

43 °C

#### Auto-ignition temperature:

>200 °C (Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

#### Decomposition temperature:

For mixtures not applicable.

#### pH

Mixture is non-soluble (in water).

#### Viscosity:

< 60 s (20°C / ISO 2431 / 6 mm)

< 20,5 mm<sup>2</sup>/s (40°C)

#### Solubility

#### water:

Not miscible or difficult to mix.

#### polar solvents:

Not miscible or difficult to mix.

#### non-polar solvents:

Fully miscible.

#### Partition coefficient n-octanol/water (log value)

For mixtures not applicable.

#### Vapour pressure at 20 °C:

10.7 hPa (123-86-4 n-Butyl acetate)

#### Density and/or relative density

#### Density at 20 °C:

~0.92 g/cm<sup>3</sup>

#### Vapour density

Not applicable.

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**9.2 Other information****Appearance:****Form:** Fluid**Important information on protection of health and environment, and on safety.****Ignition temperature:** Product is not selfigniting.**Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.**Change in condition****Softening point/range****Oxidising properties**

The product is flammable, although not oxidising.

**Evaporation rate**

For mixtures not applicable.

**Information with regard to physical hazard****classes****Explosives** Void**Flammable gases** Void**Aerosols** Void**Oxidising gases** Void**Gases under pressure** Void**Flammable liquids** Flammable liquid and vapour.**Flammable solids** Void**Self-reactive substances and mixtures** Void**Pyrophoric liquids** Void**Pyrophoric solids** Void**Self-heating substances and mixtures** Void**Substances and mixtures, which emit flammable****gases in contact with water** Void**Oxidising liquids** Void**Oxidising solids** Void**Organic peroxides** Void**Corrosive to metals** Void**Desensitised explosives** Void**SECTION 10: Stability and reactivity****10.1 Reactivity** Vapours can form explosive mixtures with air.**10.2 Chemical stability** Sensitive to moisture.**10.3 Possibility of hazardous reactions**Exotherm reactions with water and aqueous solutions, alcohols, amines, alcalis under secession of carbon dioxide (CO<sub>2</sub>). Upon contact with moisture forming of CO<sub>2</sub> resulting in increased pressure in closed containers. Danger of bursting!**10.4 Conditions to avoid**

Protect from moisture contamination.

Keep away from heat sources, sparks and open flames.

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**10.5 Incompatible materials:** strong oxidizing agents

**10.6 Hazardous decomposition products:**

In case of fire arise: smoke and carbon oxides. Under certain fire conditions tracks of other toxic products can not be excluded.

### SECTION 11: Toxicological information

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

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

**LD/LC50 values relevant for classification:**

The quoted data are literature values and/or manufacturer/supplier data.

#### Isophorondiisocyanat, homopolymer

Oral	LD <sub>50</sub>	>14,000 mg/kg (rat)
Inhalative	LC <sub>50</sub> / 4 h	>5 mg/l (rat)

#### Skin corrosion/irritation

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

Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/irritation

Splashes of solvent may cause irritation to the eye and reversible damage.

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

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**STOT-single exposure** May cause respiratory irritation.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** May be fatal if swallowed and enters airways.

#### General notes:

Inhalation of solvent concentrations in excess of the OEL or MAK limit values can lead to health damage such as irritation of the mucous membranes and respiratory tract, damage to the kidneys and liver, and impairment of the central nervous system. Symptoms: headaches, dizziness, fatigue, muscle weakness, narcotic effect and, in exceptional cases, loss of consciousness. Prolonged or repeated contact with the product impairs the skin's natural lipid replenishment and causes the skin to dry out. The product can enter the body through the skin. Splashes of solvent may cause irritation to the eye and reversible damage.

#### Additional toxicological information:

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as carcinogenic, mutagenic or toxic to reproduction (CMR properties).

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity:** There are no statements/information available of the preparation.

### 12.2 Persistence and degradability

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

OECD 301F Manometric Respirometry Test	80 % (28d) readily biodegradable
--	-------------------------------------

**12.3 Bioaccumulative potential** No further relevant information available.

**12.4 Mobility in soil** No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

This product does not contain relevant substances that have been assessed as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB).

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Must be specially treated adhering to official regulations.

#### European waste catalogue

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP3	Flammable
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP13	Sensitising

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### SECTION 14: Transport information

**14.1 UN number or ID number**

ADR, IMDG, IATA

UN1263

**14.2 UN proper shipping name**

ADR

1263 PAINT RELATED MATERIAL

IMDG, IATA

PAINT RELATED MATERIAL

**14.3 Transport hazard class(es)**

ADR



Class

3 (F1) Flammable liquids.

Label

3

IMDG, IATA



Class

3 Flammable liquids.

Label

3

**14.4 Packing group**

ADR, IMDG, IATA

III

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**

Warning: Flammable liquids.

Hazard identification number (Kemler code):

30

EMS Number:

F-E,S-E

Stowage Category

A

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

instruments

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

3

Tunnel restriction code

D/E

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**IMDG****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

**UN "Model Regulation":**

UN 1263 PAINT RELATED MATERIAL, 3, III, (D/E)

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU****Named dangerous substances - ANNEX I** None of the ingredients is listed.**Seveso category P5c** FLAMMABLE LIQUIDS**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 74**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**REGULATION (EU) 2019/1148****Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**National regulations:****Information about limitation of use:**

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

**Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**Labelling according to Regulation (EC) No 2004/42** Not applicable.**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.

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The given conditions of work of the user extract themselves from our knowledge and control. The product/the preparation may be used without written permission for no other use, than the mentioned intended purpose. The user is responsible for the observance of all necessary legal instructions.

This Safety Data Sheet replaces all previous versions. With the newest version in each case, the preceding Safety Data Sheets are set out of strength.

For further information please consult the "Technical Data Sheet".  
Misuse may cause damage to health and environment.

**Labelling according to regulation (EC) No 528/2012****Relevant phrases**

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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

Flammable liquids	On basis of test data
Skin sensitisation Specific target organ toxicity (single exposure) Aspiration hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Date of previous version:** 07.08.2023**Version number of previous version:** 05-00**Abbreviations and acronyms:**

- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 1: Acute toxicity – Category 1
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Resp. Sens. 1: Respiratory sensitisation – Category 1
- Skin Sens. 1: Skin sensitisation – Category 1
- Skin Sens. 1B: Skin sensitisation – Category 1B
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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