

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

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

**1.1 Product identifier**

Trade name: **Boley Uhrenreiniger 1:20**

Article number: 507286, 507285

UFI: KF00-Q072-U004-4DES

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

**1.2.1 Relevant identified uses**

**Application of the substance / the mixture** Cleaning agent / Cleaner

**1.2.2 Uses advised against** Applications not listed above are not recommended as they are considered unidentified.

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

**Manufacturer:**

Gebr. Boley GmbH & Co. KG

Julius-Hölder-Str. 2

D - 70597 Stuttgart

Telefon: +49-(0) 711 132 71-0

Fax: +49-(0) 711 132 71-90

**Informing department:** Technical customer service

**1.4 Emergency telephone number:**

Giftnotrufzentralen:

Berlin: 030 192 40    Bonn: 0228 192 40    Erfurt: 0361 730 730    Freiburg: 0761 192 40

Göttingen: 0551 192 40    Mainz: 06131 192 40    München: 089 192 40

Wien: +43 140 643 43    Zürich: +41 44 251 51 51

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Skin Corr. 1B    H314 Causes severe skin burns and eye damage.

Eye Dam. 1    H318 Causes serious eye damage.

STOT SE 3    H335 May cause respiratory irritation.

Aquatic Chronic 3    H412 Harmful to aquatic life with long lasting effects.

**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**



GHS05

GHS07

**Signal word** Danger

**Hazard-determining components of labelling:**

alcohols, C9-11-iso-, C10-rich, ethoxylated

ammonia, aqueous solution

alcohols, C12-14, ethoxylated

**Hazard statements**

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

**Additional information:**

EUH208 Contains triisobutyl phosphate. May produce an allergic reaction.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

**PBT:**

The product does not contain any substance at 0.1% or more by weight that is considered persistent, bioaccumulative and toxic.

**vPvB:**

The product does not contain any substance at 0.1% or more by weight that is considered very persistent and very bioaccumulative.

(Contd. on page 2)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

Trade name: **Boley Uhrenreiniger 1:20**

(Contd. of page 1)

|                                                         |         |
|---------------------------------------------------------|---------|
| <b>Determination of endocrine-disrupting properties</b> |         |
| 78-93-3 butanone                                        | List II |

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture of the substances listed below with harmless additions.

|                                                                      |                                                                                                                                                                                                                                                              |           |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <b>Dangerous components:</b>                                         |                                                                                                                                                                                                                                                              |           |
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Reg.nr.: 01-2119457610-43       | ethanol<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319<br>Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %                                                                                                                                              | 10-25%    |
| CAS: 78330-20-8<br>Reg.nr.: Polymer                                  | alcohols, C9-11-iso-, C10-rich, ethoxylated<br>Alternative CAS number: 61827-42-7<br>Eye Dam. 1, H318                                                                                                                                                        | 2.5-10%   |
| CAS: 68604-33-1<br>EINECS: 271-685-3<br>Reg.nr.: 01-2120770276-50    | Fatty acids, C14-18 and C16-18-unsatd., ammonium salts<br>Aquatic Chronic 3, H412                                                                                                                                                                            | 2.5-10%   |
| CAS: 1336-21-6<br>EINECS: 215-647-6<br>Reg.nr.: 01-2119982985-14     | ammonia, aqueous solution<br>Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 2, H411<br>Specific concentration limit: STOT SE 3; H335: C ≥ 5 %                                                                                                   | 2.5-10%   |
| CAS: 97489-15-1<br>EC number: 307-055-2<br>Reg.nr.: 01-2119489924-20 | Sodium C14-17 Sec Alkyl Sulfonate<br>Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412<br>Specific concentration limits: Skin Irrit. 2; H315: C ≥ 10 %<br>Eye Dam. 1; H318: C ≥ 15 %<br>Eye Irrit. 2; H319: 10 % ≤ C < 15 % | 2.5-10%   |
| EC number: 931-838-3<br>Reg.nr.: Polymer                             | alcohols, C12-14, ethoxylated<br>Eye Dam. 1, H318; Acute Tox. 4, H302; Aquatic Chronic 3, H412                                                                                                                                                               | 2.5-10%   |
| CAS: 126-71-6<br>EINECS: 204-798-3<br>Reg.nr.: 01-2119957118-32      | triisobutyl phosphate<br>Skin Sens. 1B, H317                                                                                                                                                                                                                 | 0.3-2.5%  |
| CAS: 78-93-3<br>EINECS: 201-159-0<br>Reg.nr.: 01-2119457290-43       | butanone<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336; EUH066                                                                                                                                                                                  | 0.1-<0.3% |
| <b>Ingredients due to Detergents Regulation 648/2044 EC:</b>         |                                                                                                                                                                                                                                                              |           |
| NON-IONIC SURFACTANTS, ANIONIC SURFACTANTS                           |                                                                                                                                                                                                                                                              | ≥5 - <15% |

### SVHC

The product does not contain substances of very high concern (REACH Regulation (EC) No 1907/2006, Article 57) in concentrations of 0.1% or more.

### Additional information

Products with EC-Limit-Values are named under section 8.

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

Personal protection for the First Aider.

Instantly remove any clothing soiled by the product.

**After inhalation** Supply fresh air.

**After skin contact** Rinse with water and soap directly.

**After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.

**After swallowing** Drink copious amounts of water and provide fresh air. Instantly call for doctor.

**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet.

**For safety reasons unsuitable extinguishing agents** Water with a full water jet.

**5.2 Special hazards arising from the substance or mixture** Formation of poisonous gases during heating or in fires.

### 5.3 Advice for firefighters

**Protective equipment:** In case of fire harmful vapors may be produced. - Wear respiratory protective device.

#### Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

(Contd. on page 3)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

Trade name: **Boley Uhrenreiniger 1:20**

(Contd. of page 2)

Cool endangered containers with water spray jet.

## SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

### 6.2 Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.

Do not allow to enter drainage system, surface or ground water.

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

Send for recovery or disposal in suitable containers.

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

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

Apply neutralising agent.

### 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 information on disposal.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling** Store in cool, dry place in tightly closed containers.

**Information about protection against explosions and fires:** Keep breathing equipment ready.

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

**Requirements to be met by storerooms and containers:** Store only in the original container.

**Information about storage in one common storage facility:** Do not store together with acids.

**Further information about storage conditions:**

Protect from frost.

Protect from heat and direct sunlight.

**Storage class** 8 A

**7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Components with limit values that require monitoring at the workplace:**

#### 64-17-5 ethanol

AGW (Germany) Long-term value: 380 mg/m<sup>3</sup>, 200 ppm  
4(II);DFG, Y

#### 1336-21-6 ammonia, aqueous solution

AGW (Germany) Long-term value: 14 mg/m<sup>3</sup>, 20 ppm  
2(I);DFG, EU, Y

#### 126-71-6 triisobutyl phosphate

AGW (Germany) Long-term value: 50 mg/m<sup>3</sup>  
2(II);AGS, Sh, 11

#### 78-93-3 butanone

AGW (Germany) Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
1(I);DFG, EU, H, Y

### DNELs

#### 1336-21-6 ammonia, aqueous solution

|            |                                       |                                   |
|------------|---------------------------------------|-----------------------------------|
| Oral       | long-term exposure - systemic effects | 6.8 mg/kg bw/day (consumer)       |
| Dermal     | long-term exposure - systemic effects | 6.8 mg/kg bw/day (worker)         |
|            |                                       | 6.8 mg/kg bw/day (consumer)       |
| Inhalative | long-term exposure - systemic effects | 47.6 mg/m <sup>3</sup> (worker)   |
|            |                                       | 23.8 mg/m <sup>3</sup> (consumer) |

#### 97489-15-1 Sodium C14-17 Sec Alkyl Sulfonate

|            |                                       |                                   |
|------------|---------------------------------------|-----------------------------------|
| Oral       | long-term exposure - systemic effects | 7.1 mg/kg bw/day (consumer)       |
| Dermal     | long-term exposure - systemic effects | 5 mg/kg bw/day (worker)           |
|            |                                       | 3.57 mg/kg bw/day (consumer)      |
|            | short-term exposure - local effects   | 2.8 mg/cm <sup>2</sup> (worker)   |
|            |                                       | 2.8 mg/cm <sup>2</sup> (consumer) |
| Inhalative | long-term exposure - systemic effects | 35 mg/m <sup>3</sup> (worker)     |
|            |                                       | 12.4 mg/m <sup>3</sup> (consumer) |

(Contd. on page 4)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

Trade name: **Boley Uhrenreiniger 1:20**

(Contd. of page 3)

|                                                     |                                                        |                                   |
|-----------------------------------------------------|--------------------------------------------------------|-----------------------------------|
| <b>126-71-6 triisobutyl phosphate</b>               |                                                        |                                   |
| Oral                                                | long-term exposure - systemic effects                  | 2.13 mg/kg bw/day (consumer)      |
| Dermal                                              | long-term exposure - systemic effects                  | 4.25 mg/kg bw/day (worker)        |
|                                                     |                                                        | 2.13 mg/kg bw/day (consumer)      |
| Inhalative                                          | long-term exposure - systemic effects                  | 50 mg/m <sup>3</sup> (worker)     |
|                                                     |                                                        | 8.89 mg/m <sup>3</sup> (consumer) |
| <b>78-93-3 butanone</b>                             |                                                        |                                   |
| Oral                                                | long-term exposure - systemic effects                  | 31 mg/kg bw/day (consumer)        |
| Dermal                                              | long-term exposure - systemic effects                  | 1,161 mg/kg bw/day (worker)       |
|                                                     |                                                        | 412 mg/kg bw/day (consumer)       |
| Inhalative                                          | long-term exposure - systemic effects                  | 600 mg/m <sup>3</sup> (worker)    |
|                                                     |                                                        | 106 mg/m <sup>3</sup> (consumer)  |
| <b>PNECs</b>                                        |                                                        |                                   |
| <b>1336-21-6 ammonia, aqueous solution</b>          |                                                        |                                   |
| freshwater                                          |                                                        | 0.0011 mg/l (-)                   |
| marine water                                        |                                                        | 0.0011 mg/l (-)                   |
| <b>97489-15-1 Sodium C14-17 Sec Alkyl Sulfonate</b> |                                                        |                                   |
| freshwater                                          |                                                        | 0.04 mg/l (-)                     |
| marine water                                        |                                                        | 0.004 mg/l (-)                    |
| sediment (freshwater)                               |                                                        | 9.4 mg/kg (-)                     |
| STP                                                 |                                                        | 600 mg/l (-)                      |
| soil                                                |                                                        | 9.4 mg/kg (-)                     |
| sediment (marine water)                             |                                                        | 0.94 mg/kg (-)                    |
| <b>126-71-6 triisobutyl phosphate</b>               |                                                        |                                   |
| freshwater                                          |                                                        | 0.0014 mg/l (-)                   |
| marine water                                        |                                                        | 0.001 mg/l (-)                    |
| sediment (freshwater)                               |                                                        | 2.05 mg/kg (-)                    |
| STP                                                 |                                                        | 3.72 mg/l (-)                     |
| soil                                                |                                                        | 0.426 mg/kg (-)                   |
| sediment (marine water)                             |                                                        | 0.205 mg/kg (-)                   |
| <b>78-93-3 butanone</b>                             |                                                        |                                   |
| freshwater                                          |                                                        | 55.8 mg/l (-)                     |
| marine water                                        |                                                        | 55.8 mg/l (-)                     |
| sediment (freshwater)                               |                                                        | 284.74 mg/kg (-)                  |
| STP                                                 |                                                        | 709 mg/l (-)                      |
| soil                                                |                                                        | 22.5 mg/kg (-)                    |
| sediment (marine water)                             |                                                        | 284.7 mg/kg (-)                   |
| <b>Ingredients with biological limit values:</b>    |                                                        |                                   |
| <b>78-93-3 butanone</b>                             |                                                        |                                   |
| BGW (Germany)                                       | 2 mg/l                                                 |                                   |
|                                                     | Untersuchungsmaterial: Urin                            |                                   |
|                                                     | Probennahmezeitpunkt: Expositionsende bzw. Schichtende |                                   |
|                                                     | Parameter: 2-Butanon                                   |                                   |

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

#### 8.2 Exposure controls

**Appropriate engineering controls** No further data; see section 7.

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

**General protective and hygienic measures**

Do not eat, drink or smoke while working.

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Only during spraying without adequate removal by suction.

**Hand protection**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 5)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

Trade name: **Boley Uhrenreiniger 1:20**

(Contd. of page 4)

**Material of gloves** Safety Gloves of Nitril (EN 374)

**Penetration time of glove material**

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

**Not suitable are gloves made of the following materials:** Leather gloves

**Eye/face protection** Tightly sealed safety glasses.

**Body protection:** Alkaline resistant protective clothing

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

|                                                                 |                |
|-----------------------------------------------------------------|----------------|
| <b>Physical state</b>                                           | Liquid         |
| <b>Colour:</b>                                                  | Yellowish      |
| <b>Odour:</b>                                                   | Ammonia-like   |
| <b>Odour threshold:</b>                                         | Not determined |
| <b>Melting point/freezing point:</b>                            | Not determined |
| <b>Boiling point or initial boiling point and boiling range</b> | Not determined |
| <b>Flammability</b>                                             | Not applicable |
| <b>Lower and upper explosion limit</b>                          |                |
| <b>Lower:</b>                                                   | Not determined |
| <b>Upper:</b>                                                   | Not determined |
| <b>Flash point:</b>                                             | 40 °C          |
| <b>Decomposition temperature:</b>                               | Not determined |
| <b>pH at 20 °C</b>                                              | 11.4           |
| <b>Viscosity:</b>                                               |                |
| <b>Kinematic viscosity</b>                                      | Not determined |
| <b>dynamic:</b>                                                 | Not determined |
| <b>Solubility</b>                                               |                |
| <b>Water:</b>                                                   | Fully miscible |
| <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined |
| <b>Vapour pressure:</b>                                         | Not determined |
| <b>Density and/or relative density</b>                          |                |
| <b>Density at 20 °C</b>                                         | 0.99 g/cm³     |
| <b>Relative density</b>                                         | Not determined |
| <b>Vapour density</b>                                           | Not determined |

### 9.2 Other information

|                                                           |                              |
|-----------------------------------------------------------|------------------------------|
| <b>Appearance:</b>                                        |                              |
| <b>Form:</b>                                              | Fluid                        |
| <b>Self-inflammability:</b>                               | Product is not selfigniting. |
| <b>Explosive properties:</b>                              | Product is not explosive.    |
| <b>Change in condition</b>                                |                              |
| <b>Evaporation rate</b>                                   | Not determined               |
| <b>Information with regard to physical hazard classes</b> | Void                         |

## SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

### 10.2 Chemical stability

**Thermal decomposition / conditions to be avoided:** No decomposition if stored, handled and used as directed.

**10.3 Possibility of hazardous reactions** Reacts with strong acids

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No dangerous decomposition products known

## 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 that are relevant for classification:

##### 64-17-5 ethanol

|            |          |                        |
|------------|----------|------------------------|
| Oral       | LD50     | 5,000 mg/kg (rat)      |
| Dermal     | LD50     | >10,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | >1,800 mg/m³ (rat)     |

##### 78330-20-8 alcohols, C9-11-iso-, C10-rich, ethoxylated

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | >2,000 mg/kg (rat) |
|------|------|--------------------|

(Contd. on page 6)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

Trade name: **Boley Uhrenreiniger 1:20**

(Contd. of page 5)

|                                                                          |          |                                |
|--------------------------------------------------------------------------|----------|--------------------------------|
| <b>68604-33-1 Fatty acids, C14-18 and C16-18-unsatd., ammonium salts</b> |          |                                |
| Oral                                                                     | LD50     | 5,000 mg/kg (rat)              |
| <b>1336-21-6 ammonia, aqueous solution</b>                               |          |                                |
| Oral                                                                     | LD50     | 350 mg/kg (rat)                |
| Inhalative                                                               | LC50/4h  | 2 mg/l (rat)                   |
| <b>97489-15-1 Sodium C14-17 Sec Alkyl Sulfonate</b>                      |          |                                |
| Oral                                                                     | LD50     | >500-2,000 mg/kg (rat)         |
| Dermal                                                                   | LD50     | >2,000 mg/kg (mouse)           |
| <b>alcohols, C12-14, ethoxylated</b>                                     |          |                                |
| Oral                                                                     | LD50     | 300-2,000 mg/kg (rat)          |
| <b>126-71-6 triisobutyl phosphate</b>                                    |          |                                |
| Oral                                                                     | LD50     | >5,000 mg/kg (rat)             |
| Dermal                                                                   | LD50     | >5,000 mg/kg (rabbit)          |
| Inhalative                                                               | LC50/4 h | >5,140 mg/m <sup>3</sup> (rat) |
| <b>78-93-3 butanone</b>                                                  |          |                                |
| Oral                                                                     | LD50     | 3,300 mg/kg (rat)              |
| Dermal                                                                   | LD50     | 6,400-8,000 mg/kg (rabbit)     |

#### Specific symptoms in biological assay:

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Serious eye damage/irritation** Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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

#### 11.2 Information on other hazards

|                                        |          |         |
|----------------------------------------|----------|---------|
| <b>Endocrine disrupting properties</b> |          |         |
| 78-93-3                                | butanone | List II |

## \* SECTION 12: Ecological information

### 12.1 Toxicity

|                                                                          |                                                     |
|--------------------------------------------------------------------------|-----------------------------------------------------|
| <b>Aquatic toxicity:</b>                                                 |                                                     |
| <b>64-17-5 ethanol</b>                                                   |                                                     |
| LC50/48 h                                                                | 8,150 mg/l (Leuciscus-Idus / Goldorfe)              |
| EC50/48h                                                                 | 9,268-14,221 mg/l (Daphnia Magna)                   |
| <b>78330-20-8 alcohols, C9-11-iso-, C10-rich, ethoxylated</b>            |                                                     |
| NOEC (21 d)                                                              | >1 mg/l (Daphnia Magna)                             |
| LC50/96 h                                                                | >10 mg/l (fish)                                     |
| EC50/48h                                                                 | >10 mg/l (Daphnia Magna)                            |
| EC50/72h                                                                 | 10-100 mg/l (alga)                                  |
| EC50/96h                                                                 | >10 mg/l (Scenedesmus subspicatus)                  |
| EC10/16h                                                                 | 48 mg/l (activated sludge)                          |
| <b>68604-33-1 Fatty acids, C14-18 and C16-18-unsatd., ammonium salts</b> |                                                     |
| LC50/96 h                                                                | 21-217 mg/l (fish)                                  |
| EC50/48h                                                                 | 19-24 mg/l (aquatic invertebrates)                  |
| EC50/72h                                                                 | 44-280 mg/l (aquatic algae and cyanobacteria)       |
| <b>1336-21-6 ammonia, aqueous solution</b>                               |                                                     |
| LC50/96 h                                                                | 0.16-1.1 mg/l (Oncorhynchus mykiss / rainbow trout) |
| LC50/48 h                                                                | 25.4 mg/l (Daphnia Magna)                           |
| <b>97489-15-1 Sodium C14-17 Sec Alkyl Sulfonate</b>                      |                                                     |
| NOEC (28 d)                                                              | 0.85 mg/l (Oncorhynchus mykiss / rainbow trout)     |
| NOEC (21 d)                                                              | 0.36 mg/l (Daphnia Magna)                           |
| LC50/96 h                                                                | 8.4 mg/l (Leuciscus-Idus / Goldorfe)                |
| EC50/48h                                                                 | 9.81 mg/l (Daphnia Magna)                           |
| EC50/72h                                                                 | >61 mg/l (Scenedesmus subspicatus)                  |

(Contd. on page 7)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

Trade name: **Boley Uhrenreiniger 1:20**

(Contd. of page 6)

|                                                               |                                        |
|---------------------------------------------------------------|----------------------------------------|
| <b>alcohols, C12-14, ethoxylated</b>                          |                                        |
| LC50/96 h                                                     | 1-10 mg/l (fish)                       |
| EC50/48h                                                      | 1-10 mg/l (Daphnia pulex / Wasserfloh) |
| EC50/72h                                                      | 1-10 mg/l (algae)                      |
| <b>126-71-6 triisobutyl phosphate</b>                         |                                        |
| LC50/96 h                                                     | 17.8 mg/l (Leuciscus-Idus / Goldorfe)  |
| EC50/48h                                                      | 24 mg/l (daphnia)                      |
| EC50/72h                                                      | 14.3 mg/l (algae)                      |
| <b>78-93-3 butanone</b>                                       |                                        |
| LC50/96 h                                                     | 3,220 mg/l (Pimephales promelas)       |
| EC50/48h                                                      | 5,091 mg/l (Daphnia Magna)             |
| <b>12.2 Persistence and degradability</b>                     |                                        |
| <b>78330-20-8 alcohols, C9-11-iso-, C10-rich, ethoxylated</b> |                                        |
| OECD 301 B                                                    | >60 % (-)                              |
| OECD 301F (Manometric Respirometry Test)                      | 82 % / 28 days (-)                     |
| <b>97489-15-1 Sodium C14-17 Sec Alkyl Sulfonate</b>           |                                        |
| OECD 301 B                                                    | 78 %                                   |
| <b>alcohols, C12-14, ethoxylated</b>                          |                                        |
| OECD 301 D (Closed-Bottle-Test)                               | >60 % (-)                              |
| <b>126-71-6 triisobutyl phosphate</b>                         |                                        |
| OECD 301 B                                                    | 79-82 %                                |
| <b>78-93-3 butanone</b>                                       |                                        |
| OECD 301 D (Closed-Bottle-Test)                               | 98 % (-)                               |

**Degree of elimination:**

The total product is more than 70% readily eliminable after neutralisation (OECD 301) and is therefore considered 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**

**PBT:** Not applicable

**vPvB:** Not applicable

**12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

**12.7 Other adverse effects**

**Remark:** Harmful to fish

**Additional ecological information:**

**General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Harmful to aquatic organisms

Flushing large quantities into the sewage system or water bodies can lead to an increase in the pH value. A high pH value is harmful to aquatic organisms.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

The information on the new European waste catalog is essentially based on the use of the product. Here we can not make specific statements about the different fields of application of our products.

**Uncleaned packagings:**

**Recommendation:**

Packaging can be reused or recycled after cleaning.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

**Recommended cleaning agent:** Clean with water

## SECTION 14: Transport information

**14.1 UN number or ID number**

**ADR, IMDG, IATA**

Void

**14.2 UN proper shipping name**

**ADR, IMDG, IATA**

Void

(Contd. on page 8)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

Trade name: **Boley Uhrenreiniger 1:20**

(Contd. of page 7)

#### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Void

#### 14.4 Packing group

ADR, IMDG, IATA

Void

#### 14.5 Environmental hazards:

Not applicable

#### 14.6 Special precautions for user

Not applicable

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

Not applicable

UN "Model Regulation":

Void

### SECTION 15: Regulatory information

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

**Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.  
**Hazard pictograms**



GHS05



GHS07

**Signal word** Danger

#### Hazard-determining components of labelling:

alcohols, C9-11-iso-, C10-rich, ethoxylated

ammonia, aqueous solution

alcohols, C12-14, ethoxylated

#### Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### Directive 2012/18/EU

**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**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

78-93-3 butanone

3

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

78-93-3 butanone

3

#### National regulations

**Decree to be applied in case of technical fault:**

| Class | Share in % |
|-------|------------|
| NK    | 10-25      |

**Suisse VOC-Content:** 14.56 %

**Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

(Contd. on page 9)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 23.07.2026

V 3 (replaces version 2)

Revision: 23.07.2026

Trade name: **Boley Uhrenreiniger 1:20**

(Contd. of page 8)

#### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

##### Relevant phrases

H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory 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.  
EUH066 Repeated exposure may cause skin dryness or cracking.

**Department issuing data specification sheet:** Technical Customer Service / Regulatory Affairs

##### Contact:

Herr Lutz

Telefon: +49-(0) 711 132 71-0

Fax: +49-(0) 711 132 71-90

**Date of previous version:** 28.04.2025

**Version number of previous version:** 2

##### Abbreviations and acronyms:

Flam. Liq. 2: Flammable liquids – Category 2  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1B: Skin sensitisation – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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