

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

**Revision date:** 1 Aug 2024

**Print date:** 13 Aug 2026

**Version:** 3



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## Frisch & Sauber Glasreiniger

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

#### 1.1. Product identifier

**Trade name/designation:**

Frisch & Sauber Glasreiniger

**Article No.:**

003

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

**Use of the substance/mixture:**

Cleaning agent

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor):**

**Otto Oehme GmbH**

FEA

Industriestr. 20

90584 Allersberg

Germany

**Telephone:** 09176/98050

**Telefax:** 09176/980555

**E-mail:** Info@Oehme-Lorito.de

**Website:** www.Oehme-Lorito.de

#### 1.4. Emergency telephone number

No data available

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

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]**

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**Hazard statements:** none

**Supplemental hazard information:** none

**Precautionary statements:** none

#### 2.3. Other hazards

No data available

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

**Description:**

aqueous solution

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### Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers                                                                                     | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]                                                                                               | Concentration         |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| CAS No.: 64-17-5<br>EC No.: 200-578-6<br>Index No.: 603-002-00-5<br>REACH No.:<br>01-2119457610-43-XXXX | <b>ethanol</b><br>Flam. Liq. 2 (H225)<br>Danger<br><b>Acute Toxicity Estimate</b><br>ATE (oral) 10,470 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, vapour) 51 mg/L | 1 - ≤ 10<br>weight-%  |
| CAS No.: 78-93-3<br>EC No.: 201-159-0<br>Index No.: 606-002-00-3<br>REACH No.:<br>01-2119457290-43-XXXX | <b>butanone</b><br>Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)<br>Danger EUH066                                                                                 | 0 - ≤ 0.1<br>weight-% |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Remove affected person from the danger area and lay down.

#### Following inhalation:

Provide fresh air.

#### After eye contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### Following ingestion:

Rinse mouth. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

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

No known symptoms to date.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Adjust to the environment

#### Unsuitable extinguishing media:

There are no restrictions on extinguishing agents for this mixture

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

#### Hazardous combustion products:

In case of fire: Gases/vapours, toxic

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

### 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Avoid breathing dust/fume/gas/mist/vapours/spray. Remove persons to safety.

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### Protective equipment:

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

### 6.1.2. For emergency responders

#### Personal protection equipment:

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Wear personal protection equipment (refer to section 8).

#### Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

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

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

| Limit value type<br>(country of<br>origin) | Substance name                                           | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEL (GB)                                   | <b>ethanol</b><br>CAS No.: 64-17-5<br>EC No.: 200-578-6  | ① 1,000 ppm (1,920 mg/m <sup>3</sup> )                                                                                                                                         |
| IOELV (EU)                                 | <b>butanone</b><br>CAS No.: 78-93-3<br>EC No.: 201-159-0 | ① 200 ppm (600 mg/m <sup>3</sup> )<br>② 300 ppm (900 mg/m <sup>3</sup> )                                                                                                       |
| WEL (GB)                                   | <b>butanone</b><br>CAS No.: 78-93-3<br>EC No.: 201-159-0 | ① 200 ppm (600 mg/m <sup>3</sup> )<br>② 300 ppm (899 mg/m <sup>3</sup> )                                                                                                       |

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### 8.1.2. Biological limit values

| Limit value type<br>(country of origin) | Substance name                                    | Limit value | ① Parameter<br>② Test material<br>③ Time of sampling:<br>④ Remark |
|-----------------------------------------|---------------------------------------------------|-------------|-------------------------------------------------------------------|
| BMGV (GB)<br>from 3 Jan 1900            | butanone<br>CAS No.: 78-93-3<br>EC No.: 201-159-0 | 70 µmol/L   | ① butan 2-one<br>② urine<br>③ end of exposure or end of shift     |

### 8.1.3. DNEL-/PNEC-values

No data available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No data available

#### 8.2.2. Personal protection equipment

##### Eye/face protection:

Eye glasses with side protection EN 166

##### Skin protection:

Tested protective gloves must be worn EN ISO 374 Suitable material: Breakthrough time: min In the case of wanting to use the gloves again, clean them before taking off and air them well. Breakthrough times and swelling properties of the material must be taken into consideration.

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid

Colour: blue

Odour: Alcohol

flammability: No

#### Safety relevant basis data

| Parameter                                    | Value               | at °C | ① Method<br>② Remark              |
|----------------------------------------------|---------------------|-------|-----------------------------------|
| pH                                           | = 7                 | 20 °C |                                   |
| Melting point                                | No data available   |       |                                   |
| Freezing point                               | No data available   |       |                                   |
| Initial boiling point and boiling range      | No data available   |       |                                   |
| Flash point                                  | 44 °C               |       | ② Unterhält die Verbrennung nicht |
| Evaporation rate                             | No data available   |       |                                   |
| Auto-ignition temperature                    | No data available   |       |                                   |
| Upper/lower flammability or explosive limits | > 1.3 - ≤ 15 %      |       | ② (Ethanol)                       |
| Vapour pressure                              | No data available   |       |                                   |
| Vapour density                               | No data available   |       |                                   |
| Density                                      | 1 g/cm <sup>3</sup> | 20 °C |                                   |
| Bulk density                                 | not applicable      |       |                                   |
| Water solubility                             | completely miscible |       |                                   |
| Dynamic viscosity                            | No data available   |       |                                   |
| Kinematic viscosity                          | No data available   |       |                                   |

### 9.2. Other information

No data available

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## Frisch & Sauber Glasreiniger

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Vapors may form an explosive mixture with air.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

extreme temperatures

#### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

No data available

### SECTION 11: Toxicological information

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

|                                                                                |
|--------------------------------------------------------------------------------|
| <b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6                              |
| <b>LD<sub>50</sub> oral:</b> 10,470 mg/kg (Ratte)                              |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Kaninchen)                        |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 51 mg/L 4 h (Ratte) |

##### Acute oral toxicity:

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

##### Acute dermal toxicity:

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

##### Acute inhalation toxicity:

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

##### Skin corrosion/irritation:

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

##### Serious eye damage/irritation:

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

##### 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:

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

##### 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.

##### Additional information:

No data available

#### 11.2. Information on other hazards

No data available

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## Frisch & Sauber Glasreiniger

### SECTION 12: Ecological information

#### 12.1. Toxicity

|                                                                                                        |                  |                   |
|--------------------------------------------------------------------------------------------------------|------------------|-------------------|
| <b>ethanol</b>                                                                                         | CAS No.: 64-17-5 | EC No.: 200-578-6 |
| <b>LC<sub>50</sub></b> : 5,012 mg/L 2 d (Algae/water plant, Ceriodaphnia dubia (Wasserfloh))           |                  |                   |
| <b>EC<sub>50</sub></b> : 275 mg/L 3 d (Algae/water plant, Chlorella vulgaris) OECD- Prüfrichtlinie 201 |                  |                   |
| <b>butanone</b>                                                                                        | CAS No.: 78-93-3 | EC No.: 201-159-0 |
| <b>LC<sub>50</sub></b> : 2,993 mg/L 4 d (fish, Pimephales promelas) OECD Prüfrichtlinie 203            |                  |                   |
| <b>EC<sub>50</sub></b> : 308 mg/L 2 d (crustaceans, Daphnia magna) OECD-Prüfrichtlinie 202             |                  |                   |

#### 12.2. Persistence and degradability

|                                      |                  |                   |
|--------------------------------------|------------------|-------------------|
| <b>ethanol</b>                       | CAS No.: 64-17-5 | EC No.: 200-578-6 |
| <b>Biodegradation</b> : Yes, rapidly |                  |                   |
| <b>butanone</b>                      | CAS No.: 78-93-3 | EC No.: 201-159-0 |
| <b>Biodegradation</b> : Yes, rapidly |                  |                   |

#### 12.3. Bioaccumulative potential

|                                             |                  |                   |
|---------------------------------------------|------------------|-------------------|
| <b>ethanol</b>                              | CAS No.: 64-17-5 | EC No.: 200-578-6 |
| <b>Log K<sub>ow</sub></b> : -0.35           |                  |                   |
| <b>Bioconcentration factor (BCF)</b> : 0.66 |                  |                   |
| <b>butanone</b>                             | CAS No.: 78-93-3 | EC No.: 201-159-0 |
| <b>Log K<sub>ow</sub></b> : 0.3             |                  |                   |

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

|                                               |                  |                   |
|-----------------------------------------------|------------------|-------------------|
| <b>ethanol</b>                                | CAS No.: 64-17-5 | EC No.: 200-578-6 |
| <b>Results of PBT and vPvB assessment</b> : — |                  |                   |
| <b>butanone</b>                               | CAS No.: 78-93-3 | EC No.: 201-159-0 |
| <b>Results of PBT and vPvB assessment</b> : — |                  |                   |

#### 12.6. Endocrine disrupting properties

No data available

#### 12.7. Other adverse effects

No data available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### 13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

|            |                                                                                                                                                                                                                                                         |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 07 06 01 * | (07) WASTES FROM ORGANIC CHEMICAL PROCESSES<br>(06) Wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics<br>(01 *) aqueous washing liquids and mother liquors                                                           |
| 20 01 29 * | (20) MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS<br>(01) separately collected fractions (except 15 01)<br>(29 *) Detergents containing hazardous substances |

\*: Evidence for disposal must be provided.

Waste code packaging

Remark:

Plastic packaging

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### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

## SECTION 14: Transport information

| Land transport (ADR/RID)                                   | Inland waterway craft (ADN)                                | Sea transport (IMDG)                                       | Air transport (ICAO-TI / IATA-DGR)                         |
|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                        |                                                            |                                                            |                                                            |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.2. UN proper shipping name</b>                       |                                                            |                                                            |                                                            |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.3. Transport hazard class(es)</b>                    |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |
| <b>14.4. Packing group</b>                                 |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |
| <b>14.5. Environmental hazards</b>                         |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |
| <b>14.6. Special precautions for user</b>                  |                                                            |                                                            |                                                            |
| not relevant                                               | not relevant                                               | not relevant                                               | not relevant                                               |

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

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Authorisations:

Labelling for contents according to regulation (EC) No. 648/2004

anionic surfactants <5%

perfumes

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out for this product.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

No data available

### 16.3. Key literature references and sources for data

No data available

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

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

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### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements |                                     |
|-------------------|-------------------------------------|
| H225              | Highly flammable liquid and vapour. |
| H319              | Causes serious eye irritation.      |
| H336              | May cause drowsiness or dizziness.  |

| Supplemental hazard information |                                                       |
|---------------------------------|-------------------------------------------------------|
| EUH066                          | Repeated exposure may cause skin dryness or cracking. |

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available