

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

Printing date 01.08.2024

V - 7.0 (replaces version 6.2)

Revision: 01.08.2024

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

· **1.1 Product identifier**

· **Trade name:** *S100 Visier- und Helmreiniger*  
*S100 Visor & Helmet Cleaner*

· **Article number:** 2406, 2407, 2409, 2419

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

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

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

· **Manufacturer/Supplier:**

*Dr. O.K. Wack Chemie GmbH*

*Untere Au 9*

*DE-85107 Baar-Ebenhausen*

*Tel.: +49 8453 41995-100*

*Mail: info@dr-wack.com*

*www.dr-wack.com*

· **Further information obtainable from:** *Safety department*

· **1.4 Emergency telephone number:** *During business hours: +49 8453 41995-501*

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

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

*Flam. Liq. 3 H226 Flammable liquid and vapour.*

· **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

· **Signal word** *Warning*

· **Hazard statements**

*H226 Flammable liquid and vapour.*

· **Precautionary statements**

*P101 If medical advice is needed, have product container or label at hand.*

*P102 Keep out of reach of children.*

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

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

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** *Not applicable.*

· **vPvB:** *Not applicable.*

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

· **3.2 Mixtures**

· **Description:** *Mixture of the substances with nonhazardous additions.*

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**· Dangerous components:**

CAS: 64-17-5	ethanol	5-10%
EINECS: 200-578-6	Flam. Liq. 2, H225; Eye Irrit. 2, H319	
Index number: 603-002-00-5	Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	
Reg.nr.: 01-2119457610-43-xxxx		

· **SVHC** None

· **Additional information:** 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:** Take affected persons out into the fresh air.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Generally the product does not irritate the skin.

Rinse with warm water.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After swallowing:**

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**· 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>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

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

Formation of toxic gases is possible during heating or in case of fire.

**· 5.3 Advice for firefighters**

· **Protective equipment:** Wear self-contained respiratory protective device.

**SECTION 6: Accidental release measures**

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

Ensure adequate ventilation.

Keep away from ignition sources.

· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

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

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

Dispose contaminated material as waste according to section 13.

**· 6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

**SECTION 7: Handling and storage**

· **7.1 Precautions for safe handling**

The usual precautionary measures are to be adhered to when handling chemicals.

· **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

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

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well sealed receptacles.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:** Keep container tightly sealed.

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

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

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs**

**64-17-5 ethanol**

Oral	DNEL system. effects (long-term)	87 mg/kg KG/Tag (consumer)
Dermal	DNEL system. effects (long-term)	206 mg/kg KG/Tag (consumer)
		343 mg/kg KG/Tag (worker)
Inhalative	DNEL system. effects (long-term)	114 mg/m <sup>3</sup> (consumer)
		950 mg/m <sup>3</sup> (worker)
	DNEL local effects (short-term)	950 mg/m <sup>3</sup> (consumer)
		1,900 mg/m <sup>3</sup> (worker)

· **PNECs**

**64-17-5 ethanol**

PNEC	0.79 mg/l (marine water)
	580 mg/l (STP)
	0.96 mg/l (fresh water)
PNEC	0.63 mg/kg (soil)
	3.6 mg/kg (sediment (freshwater))

· **Additional information:** The lists valid during the making 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:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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- **Respiratory protection:** Not necessary if room is well-ventilated.
- **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
- **Material of gloves**  
Nitrile rubber, NBR  
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 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** Safety glasses

**SECTION 9: Physical and chemical properties**

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

**General Information**

- |   |   |
|---|---|
| · <b>Physical state</b>   | Fluid                                       |
| · <b>Colour:</b>  | Colourless                                  |
| · <b>Odour:</b>   | Fruit-like                                  |
| · <b>Odour threshold:</b>   | Not determined                              |
| · <b>Melting point/freezing point:</b>                            | -4 °C                                       |
| · <b>Boiling point or initial boiling point and boiling range</b> | 78-100 °C                                   |
| · <b>Flammability</b>   | Flammable.                                  |
| · <b>Lower and upper explosion limit</b>                          |   |
| · <b>Lower:</b>   | Void  |
| · <b>Upper:</b>   | Void  |
| · <b>Flash point:</b>   | 47 °C                                       |
| · <b>Auto-ignition temperature:</b>                               | Not determined                              |
| · <b>Decomposition temperature:</b>                               | Not determined.                             |
| · <b>pH</b>   | Not determined.                             |
| · <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 at 20 °C:</b>                                | 28 hPa                                      |
| · <b>Density and/or relative density</b>                          |   |
| · <b>Density at 20 °C:</b>  | 0.98 +/- 0.02 g/cm <sup>3</sup> (DIN 51757) |
| · <b>Relative density</b>   | Not determined.                             |
| · <b>Vapour density</b>   | Not determined.                             |

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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**

· **Evaporation rate**

Not determined.

**· 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** No further relevant information available.

· **10.2 Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** Reacts with strong oxidising agents.

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

· **10.5 Incompatible materials:** Store away from oxidising agents.

· **10.6 Hazardous decomposition products:**

No decomposition if used and stored according to specifications.

In case of fire, the following can be released:

Carbon monoxide and carbon dioxide

**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.

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

**64-17-5 ethanol**

Oral	LD50	10,470 mg/kg (rat) (OECD Prüfrichtlinie 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD Prüfrichtlinie 402)
Inhalative	LC50/4 h	>20 mg/l (mouse) 124.7 mg/l (rat) (OECD Prüfrichtlinie 403)

- **Specific symptoms in biological assay:** Not determined
- **Skin corrosion/irritation**  
No irritating effect.  
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.
- **11.2 Information on other hazards**

**· Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

**· 12.1 Toxicity**

**· Aquatic toxicity:**

**64-17-5 ethanol**

LC50/96h	15,300 mg/l ( <i>Pimephales promelas</i> )
EC50/72h (static)	275 mg/l ( <i>Chlorella vulgaris</i> ) (OECD Prüfrichtlinie 201)
LC50/24h	11,200 mg/l ( <i>Oncorhynchus mykiss</i> )
EC10/72h (static)	11.5 mg/l ( <i>Chlorella vulgaris</i> ) (OECD Prüfrichtlinie 201)
NOEC/120h	250 mg/l ( <i>Danio rerio</i> ) (OECD Prüfrichtlinie 212)
EC50/48h	>10,000 mg/l ( <i>Daphnia magna</i> ) (DIN 38412)
LC50/48h (static)	5,012 mg/l ( <i>Ceriodaphnia dubia</i> ) 8,140 mg/l ( <i>Leuciscus idus</i> )

- **12.2 Persistence and degradability** No further relevant information available.
- **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**  
The product does not contain substances with endocrine disrupting properties.

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· **12.7 Other adverse effects**

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Disposal must be made according to official regulations.

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

· **European waste catalogue**

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
20 01 30	detergents other than those mentioned in 20 01 29

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR, ADN, IMDG, IATA** Void

· **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

· **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

· **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **14.5 Environmental hazards:**

· **Marine pollutant:** None

· **14.6 Special precautions for user**

None

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

Not applicable.

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**· Transport/Additional information:**

**· ADR**

**· Remarks:** Not dangerous good. ADR Special Provisions No.144.

**· IMDG**

**· Remarks:** Not dangerous good. IMDG-Code Special Provisions 144.

**· IATA**

**· Remarks:** Not dangerous good. IATA Special Provisions No. A 58.

**· UN "Model Regulation":**

Void

**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

**· 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.

**· 15.2 Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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.

**· Relevant phrases**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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

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- **Date of previous version:** 09.01.2024
- **Version number of previous version:** 6.2
- **Abbreviations and acronyms:**
  - Flam. Liq. 2: Flammable liquids – Category 2
  - Flam. Liq. 3: Flammable liquids – Category 3
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

EU