

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.01.2024

Version number 3 (replaces version 2)

Revision: 25.01.2024

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

1.1 Product identifier

Trade name: **Disinfectant cleaner spray**

Article number: 11993, 11994

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

Cleaning agent/ Cleaner

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg

Tel. +49(0)911-642960

Fax. +49(0)911-644456

e-mail info@akemi.de

Further information obtainable from:

Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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

Void

Signal word

Void

Hazard-determining components of labelling:

Not applicable.

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P273 Avoid release to the environment.

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.

Determination of endocrine-disrupting properties

For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Mixture of substances listed below with nonhazardous additions.

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| · <u>Dangerous components:</u> | | |
|---|---|------|
| CAS: 5949-29-1 EINECS: 201-069-1 Index number: 607-750-00-3 Reg.nr.: 01-2119457026-42-xxxx | 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate Eye Irrit. 2, H319; STOT SE 3, H335 | 1-5% |
| CAS: 68424-85-1 EC number: 939-253-5 Reg.nr.: 01-2119965180-41-xxxx | Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 1, H410 (M=1) Acute Tox. 4, H302 | <1% |

| · Regulation (EC) No 648/2004 on detergents / Labelling for contents | | |
|--|--|-----|
| non-ionic surfactants, preservation agents (Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride), perfumes | | <5% |

· 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: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult 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: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

· 5.3 Advice for firefighters

- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Not required.

· 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.
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).

· 6.4 Reference to other sections

No dangerous substances are released.
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**

No special measures required.

Information about fire - and explosion protection:

No special measures required.

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

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Protect from frost.

Storage class:

12

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**68424-85-1 Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride**

| | | |
|------------|-----------------------------|----------------------------------|
| Oral | DNEL (Langzeit-wiederholt) | 3.4 mg/kg bw/day (BEV) |
| Dermal | DNEL (Langzeit-wiederholt) | 5.7 mg/kg bw/day (ARB) |
| | | 3.4 mg/kg bw/day (BEV) |
| Inhalative | DNEL (Langzeit-wiederholt) | 3.96 mg/m ³ Air (ARB) |
| | | 1.64 mg/m ³ Air (BEV) |

PNECs**5949-29-1 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate**

| | |
|----------------|-----------------------------|
| PNEC (wässrig) | >1,000 mg/l (KA) |
| | 0.044 mg/l (MW) |
| | 0.44 mg/l (SW) |
| PNEC (fest) | 33.1 mg/kg Trockengew (BO) |
| | 34.6 mg/kg Trockengew (MWS) |
| | 3.46 mg/kg Trockengew (SWS) |

68424-85-1 Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride

| | |
|----------------|------------------------------|
| PNEC (wässrig) | 0.4 mg/l (KA) |
| | 0.00096 mg/l (MW) |
| | 0.0009 mg/l (SW) |
| | 0.00016 mg/l (WAS) |
| PNEC (fest) | 7 mg/kg Trockengew (BO) |
| | 13.09 mg/kg Trockengew (MWS) |
| | 12.27 mg/kg Trockengew (SWS) |

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- 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: The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Hand protection The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye/face protection Goggles recommended during refilling

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- General Information
- Colour: According to product specification
- Odour: Mild
- Odour threshold: Not determined.
- Melting point/freezing point: 0 °C
- Boiling point or initial boiling point and boiling range 100 °C
- Lower and upper explosion limit
- Lower: Not determined.
- Upper: Not determined.
- Flash point: Not applicable.
- Decomposition temperature: Not determined.
- pH Not determined.
- Viscosity:
- Kinematic viscosity at 20 °C 11 s (DIN 53211/4)
- Dynamic: Not determined.
- Solubility
- water: Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value) Not determined.
- Vapour pressure at 20 °C: 23 hPa
- Density and/or relative density
- Density at 20 °C: 1 g/cm³
- Relative density Not determined.
- Vapour density Not determined.

· 9.2 Other information

- Appearance: No further relevant information available.
- Form: Fluid

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| | |
|--|---|
| · <u>Important information on protection of health and environment, and on safety.</u> | |
| · <u>Ignition temperature:</u> | Product is not selfigniting. |
| · <u>Explosive properties:</u> | Product does not present an explosion hazard. |
| · <u>Solvent content:</u> | |
| · <u>Organic solvents:</u> | 0.0 % |
| · <u>Water:</u> | 96.5 % |
| · <u>Solids content:</u> | 3.3 % |
| · <u>Molecular weight</u> | 18.02 g/mol |
| · <u>Change in condition</u> | |
| · <u>Evaporation rate</u> | Not determined. |

| | |
|--|------|
| · <u>Information with regard to physical hazard classes</u> | |
| · <u>Explosives</u> | Void |
| · <u>Flammable gases</u> | Void |
| · <u>Aerosols</u> | Void |
| · <u>Oxidising gases</u> | Void |
| · <u>Gases under pressure</u> | Void |
| · <u>Flammable liquids</u> | Void |
| · <u>Flammable solids</u> | Void |
| · <u>Self-reactive substances and mixtures</u> | Void |
| · <u>Pyrophoric liquids</u> | Void |
| · <u>Pyrophoric solids</u> | Void |
| · <u>Self-heating substances and mixtures</u> | Void |
| · <u>Substances and mixtures, which emit flammable gases in contact with water</u> | Void |
| · <u>Oxidising liquids</u> | Void |
| · <u>Oxidising solids</u> | Void |
| · <u>Organic peroxides</u> | Void |
| · <u>Corrosive to metals</u> | Void |
| · <u>Desensitised explosives</u> | Void |

SECTION 10: Stability and reactivity

| | |
|--|---|
| · 10.1 Reactivity | No further relevant information available. |
| · 10.2 Chemical stability | |
| · <u>Thermal decomposition / conditions to be avoided:</u> | No decomposition if used according to specifications. |
| · 10.3 Possibility of hazardous reactions | No dangerous reactions known. |
| · 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 | |
| · <u>Acute toxicity</u> | Based on available data, the classification criteria are not met. |

· LD/LC50 values relevant for classification:**5949-29-1 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate**

| | | |
|--------|----------------------|--------------------------------|
| Oral | LD50 | 5,400 mg/kg (mouse) (OECD 401) |
| Dermal | LD50 | >2,000 mg/kg (rat) |
| | LD50 Intraperitoneal | 940 mg/kg (mouse) |

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| | | |
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| | | 725 mg/kg (rat) |
| | LC50/48h | 440 mg/l (Leuciscus idus) (OECD 203) |
| 68424-85-1 Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride | | |
| Oral | LD50 | 344 mg/kg (rat) |
| Dermal | LD50 | 3,412 mg/kg (rabbit) |

- 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.

11.2 Information on other hazards

- Endocrine disrupting properties
- None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity**

- Aquatic toxicity:

5949-29-1 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, monohydrate

| | |
|----------|--|
| LC50 | >10,000 mg/l (pseudomonas putida) (OECD 306) |
| | 425 mg/l (Scenedesmus quadricauda) |
| LC50/24h | 1,535 mg/l (daphnia magna) |

68424-85-1 Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride

| | |
|-----------|--|
| EC50 | 7.75 mg/l (BES) |
| LC50 | 7,070 mg/l (Eisenia fetida (Regenwürmer)) |
| EC50/48h | 0.016 mg/l (daphnia magna) |
| ErC50/72h | 0.049 mg/l (Pseudokirchneriella subcapitata) |
| NOEC | 0.032 mg/l (Pimephales promelas) |
| NOEC/21d | 0.0042 mg/l (daphnia magna) |
| LC50/96h | 0.28 mg/l (Pimephales promelas) |

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.

12.7 Other adverse effects

No further relevant information available.

Additional ecological information:

General notes:

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

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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

· Recommendation Smaller quantities can be disposed of with household waste.

· 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 29* | detergents containing hazardous substances |
|-----------|--|

· Uncleaned packaging:

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

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: No

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

· Transport/Additional information:

Not dangerous according to the above specifications.

· 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.

· 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.

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· 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:**· Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**· Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· VOC EU 0.2 g/l**· 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.

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

· Department issuing SDS: Laboratory**· Date of previous version:** 27.07.2022**· Version number of previous version:** 2

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organisation
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

EU