

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

Product identifier

Trade name: **Crystal Clean Spray**

Article number: 10954

Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.

Application of the substance / the preparation: Cleaning agent/ Cleaner

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

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.

2 Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC: Not applicable.

Label elements

Labelling according to Regulation (EC) No 1272/2008: Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances

CAS No. Description: 7732-18-5 water, distilled, conductivity or of similarpurity

Identification number(s)

EC number: 231-791-2

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.



Dangerous components:

CAS: 67-63-0

propan-2-ol



<1%

EINECS: 200-661-7

 Xi R36;  F R11

Index number: 603-117-00-0

R67

 Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336

Regulation (EC) No 648/2004 on detergents / Labelling for contents

perfumes, BENZALKONIUM CHLORIDE, METHYLISOTHIAZOLINONE, BENZISOTHIAZOLINONE

< 5%

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· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures**· Description of first aid measures**

- General information: Take affected persons out into the fresh air.
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. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- Extinguishing media
- Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
- Environmental precautions: Ensure adequate ventilation
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.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
No dangerous substances are released.

7 Handling and storage

- Handling:
- Precautions for safe handling No special measures required.

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- Information about fire - and explosion protection: No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidizing agents.
Store away from foodstuffs.
- Further information about storage conditions: Protect from frost.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

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

67-63-0 propan-2-ol

WEL	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
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- Additional information: The lists valid during the making were used as basis.
- **Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures: Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
Clean skin thoroughly immediately after handling the product.
- Respiratory protection: Not required.
- Protection of hands: No chemical-protective gloves required.
Preventive skin protection by use of skin-protecting agents is recommended.
Akemi skin protection agent recommendation for preventive skin shelter without use of protective gloves:
STOKODERM (<http://www.stoko.com>)
Akemi skin protection recommendation for skin cleaning after product handling:
FRAPANTOL (<http://www.stoko.com>)
Akemi skin protection agent recommendation for skin aftercare:
STOKO VITAN (<http://www.stoko.com>)
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.
- 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 protection: Goggles recommended during refilling

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9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	Colourless
Odour:	Odourless

· pH-value at 20 °C: 7

· Change in condition

Melting point/Melting range:	0 °C
Boiling point/Boiling range:	100 °C

· Flash point: Not applicable.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1 g/cm³

· Solubility in / Miscibility with water:

Fully miscible.

· Viscosity:

Dynamic:	Not determined.
Kinematic at 20 °C:	11 s (DIN 53211/4)

· Solvent content:

Organic solvents:	0.3 %
Water:	99.3 %

· **Other information** No further relevant information available.

10 Stability and reactivity

· Reactivity

· Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous reactions

Reacts with strong acids.
Reacts with strong oxidizing agents.

· Conditions to avoid

No further relevant information available.

· Incompatible materials:

No further relevant information available.

· Hazardous decomposition products:

No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· Primary irritant effect:

· on the skin:

No irritant effect.

· on the eye:

No irritating effect.

· Sensitization:

No sensitizing effects known.

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· Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information

· **Toxicity**

· Aquatic toxicity: No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

· **Additional ecological information:**

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

· **Results of PBT and vPvB assessment**

· PBT: Not applicable.

· vPvB: Not applicable.

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

13 Disposal considerations

· **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 dangerous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by dangerous substances

· **Uncleaned packaging:**

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

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

14 Transport information

· **UN-Number**

· ADR, ADN, IMDG, IATA Void

· **UN proper shipping name**

· ADR, ADN, IMDG, IATA Void

· **Transport hazard class(es)**

· ADR, ADN, IMDG, IATA
· Class Void

· **Packing group**

· ADR, IMDG, IATA Void

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· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user Not applicable.	
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· Transport/Additional information: Not dangerous according to the above specifications.	
· UN "Model Regulation": -	

* **15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- National regulations:
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **VOC EU** 2.8 g/l
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

* **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.

- **Relevant phrases** H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
R11 Highly flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.
- **Recommended restriction of use** refer to Technical Data Sheet (TDS)
- **Department issuing MSDS:** Laboratory
- **Contact:** Dieter Zimmermann
- **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 Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
ADR: Accord européen sur le transport 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 Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
- *** Data compared to the previous version altered.** Adaptation in accordance with REACH directive 1907/2006/EC