

Safety Data Sheet
acc. to OSHA HCS

Printing date 10/01/2025

Reviewed on 10/01/2025

1 Identification

- **Product identifier**
- **Trade name:** Kristall Klar
- **Article number:** 92100815, 92102715
- **Application of the substance / the mixture** Glass Cleaner
- **Details of the supplier of the safety data sheet Manufacturer/Supplier:**
 - Nextzett GmbH
 - Zum Schlahn 2
 - D-51709 Marienheide Tel:
 - +49 2264 4046908
 - Fax: +49 2264 2002781
 - Email: info@nextzett.de / www.nextzett.de
- **Information department:** Chemtel
- **Emergency telephone number:** +1-800-255-3924 (USA and Canada)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.



GHS05 Corrosion

Eye Damage 1 H318 Causes serious eye damage.



GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed. Skin

Irritation 2 H315 Causes skin irritation.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:** Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts ethanol docusate sodium

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Citral

pyridine-2-thiol 1-oxide, sodium salt

Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause cancer.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

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

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a poison center/doctor.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Rinse mouth.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Store locked up.

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

Other hazards

Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

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

Dangerous components:

CAS: 68411-30-3	Benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts	≥10–<25%
CAS: 68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	≥5–<10%
CAS: 64-17-5	ethanol	≥2.5–<10%
CAS: 107-98-2	1-methoxy-2-propanol	≥2.5–<10%
CAS: 577-11-7	docusate sodium	<2.5%
CAS: 102-71-6	Triethanolamine	<2.5%
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	≥0.1–<1%
CAS: 5392-40-5	Citral	≥0.1–<1%
CAS: 3811-73-2	pyridine-2-thiol 1-oxide, sodium salt	≥0.1–<1%

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

anionic surfactants

≥15 - <30%

perfumes (LIMONENE, CITRAL, GERANIOL, TERPINEOL), preservation agents (SODIUM PYRITHIONE, BENZISOTHIAZOLINONE)

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: Immediately call a 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 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents: Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture No further relevant information available.

· Advice for firefighters

· Protective equipment: No special measures required.

* 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

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).

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 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.

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· Protective Action Criteria for Chemicals

· PAC-1:

CAS: 64-17-5	ethanol	1,800 ppm
CAS: 107-98-2	1-methoxy-2-propanol	100 ppm
CAS: 577-11-7	docosate sodium	20 mg/m ³
CAS: 102-71-6	Triethanolamine	15 mg/m ³
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	15 ppm
CAS: 78-93-3	butanone	200 ppm
CAS: 101-84-8	diphenyl ether	2 ppm
CAS: 112-31-2	decanal	1.8 ppm
CAS: 99-87-6	p-cymene	120 mg/m ³
CAS: 1310-73-2	sodium hydroxide	0.50 mg/m ³

· PAC-2:

CAS: 64-17-5	ethanol	3300* ppm
CAS: 107-98-2	1-methoxy-2-propanol	160 ppm
CAS: 577-11-7	docosate sodium	63 mg/m ³
CAS: 102-71-6	Triethanolamine	240 mg/m ³
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	67 ppm
CAS: 78-93-3	butanone	2700* ppm
CAS: 101-84-8	diphenyl ether	17 ppm
CAS: 112-31-2	decanal	120 mg/m ³
CAS: 99-87-6	p-cymene	1,300 mg/m ³
CAS: 1310-73-2	sodium hydroxide	5.0 mg/m ³

· PAC-3:

CAS: 64-17-5	ethanol	15000* ppm
CAS: 107-98-2	1-methoxy-2-propanol	660 ppm
CAS: 577-11-7	docosate sodium	380 mg/m ³
CAS: 102-71-6	Triethanolamine	1,500 mg/m ³
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	170 ppm
CAS: 78-93-3	butanone	4000* ppm
CAS: 101-84-8	diphenyl ether	100 ppm
CAS: 112-31-2	decanal	740 mg/m ³
CAS: 99-87-6	p-cymene	1,900 mg/m ³
CAS: 1310-73-2	sodium hydroxide	50 mg/m ³

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires: Keep respiratory protective device available.

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- **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:** Keep receptacle tightly sealed.
- **Storage class:** 12
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

CAS: 64-17-5 ethanol

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm
REL	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV	Short-term value: 1880 mg/m ³ , 1000 ppm
	A3

CAS: 107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m ³ , 150 ppm
	Long-term value: 360 mg/m ³ , 100 ppm
TLV	Short-term value: 369 mg/m ³ , 100 ppm
	Long-term value: 184 mg/m ³ , 50 ppm
	A4

CAS: 102-71-6 Triethanolamine

TLV	Long-term value: 5 mg/m ³
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CAS: 5392-40-5 Citral

TLV	Long-term value: 32* mg/m ³ , 5* ppm
	Skin; DSEN; *inh. fraction + vapor, A4

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the skin.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· **Protection of hands:**



Protective gloves

Suitable chemical resistant protective gloves (EN374) also at prolonged, direct contact (recommended protection index 6, corresponding 480 minutes permeation time according to EN 374) e.g. from Nitrile Rubber (0,33-0,5 mm) Polyvinyl chloride (1mm).

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· Form:	Fluid
· Color:	Green
· Odor:	Fruit-like
· Odor threshold:	Not determined.

· **pH-value at 20 °C (68 °F):** 10.6

· **Change in condition**

· Melting point/Melting range:	4 °C (39.2 °F)
· Boiling point/Boiling range:	100 °C (212 °F)

· **Flash point:** Not applicable.

· **Flammability:** Not applicable.

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not self-igniting.

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

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· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)
· Density at 20 °C (68 °F):	1.029 g/cm ³ (8.58701 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	15.3 %
VOC content:	15.27 %
	157.2 g/l / 1.31 lb/gal
VOC (EC)	15.27 %
· Solids content:	<25.4 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **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:**

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

ATE (Acute Toxicity Estimate)

Oral	LD50	714 mg/kg
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CAS: 64-17-5 ethanol

Oral	LD50	7,060 mg/kg (rat)
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Inhalative	LC50/4 h	20,000 mg/l (rat)
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CAS: 107-98-2 1-methoxy-2-propanol

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)

CAS: 577-11-7 docusate sodium

Oral	LD50	1,900 mg/kg (rat)
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CAS: 102-71-6 Triethanolamine

Oral	LD50	8,000 mg/kg (rat)
------	------	-------------------

CAS: 5989-27-5 (R)-p-mentha-1,8-diene

Oral	LD50	4,400 mg/kg (rat)
------	------	-------------------

CAS: 5392-40-5 Citral

Oral	LD50	4,960 mg/kg (rat)
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CAS: 3811-73-2 pyridine-2-thiol 1-oxide, sodium salt

Oral	LD50	500 mg/kg (ATE)
		500 mg/kg (rat)
Dermal	LD50	790 mg/kg (ATE)
		790 mg/kg (rabbit)
Inhalative	LC50/4 h	0.5 mg/l (ATE)

· **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

CAS: 64-17-5	ethanol	1
CAS: 102-71-6	Triethanolamine	3
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	3
CAS: 3844-45-9	Acid Blue 9	3
CAS: 97-53-0	Eugenol	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

CAS: 3811-73-2 pyridine-2-thiol 1-oxide, sodium salt

EC50/48h	0.022 mg/l (daphnia) (OECD Prüfrichtlinie 202)
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LC50/96h 0.00767 mg/l (Danio rerio (Zebrafisch)) (OECD Prüfrichtlinie 203)

- **Persistence and degradability**
The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.
- **Behavior 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 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into the ground.
- **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:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---|-----------------|
| · UN-Number | |
| · DOT, IMDG, IATA | not regulated |
| · UN proper shipping name | |
| · DOT, IMDG, IATA | not regulated |
| · Transport hazard class(es) | |
| · DOT, ADN, IMDG, IATA | |
| · Class | not regulated |
| · Packing group | |
| · DOT, IMDG, IATA | not regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | not regulated |

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

CAS: 7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE
CAS: 68891-38-3	Alcohols, C12-14, ethoxylated, sulfates, sodium salts	ACTIVE
CAS: 64-17-5	ethanol	ACTIVE
CAS: 29911-27-1	1-(1-Methyl-2-propoxyethoxy)propan-2-ol	ACTIVE
CAS: 107-98-2	1-methoxy-2-propanol	ACTIVE
CAS: 577-11-7	docusate sodium	ACTIVE
CAS: 102-71-6	Triethanolamine	ACTIVE
CAS: 5989-27-5	(R)-p-mentha-1,8-diene	ACTIVE
CAS: 5392-40-5	Citral	ACTIVE
CAS: 68155-78-2	Heptasodium trihydrogen [[bis[2-[bis(phosphonomethyl)amino]ethyl]amino]methyl]phosphonate	ACTIVE
CAS: 3811-73-2	pyridine-2-thiol 1-oxide, sodium salt	ACTIVE
CAS: 78-93-3	butanone	ACTIVE
CAS: 51566-62-2	Citronellyl nitrile	ACTIVE
CAS: 106-23-0	citronellal	ACTIVE
CAS: 110-93-0	6-Methyl-5-hepten-2-one	ACTIVE
CAS: 68855-99-2	Litsea cubeba oil	ACTIVE
CAS: 7647-14-5	sodium chloride	ACTIVE
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one	ACTIVE
CAS: 101-84-8	diphenyl ether	ACTIVE
CAS: 112-31-2	decanal	ACTIVE
CAS: 106-24-1	geraniol	ACTIVE
CAS: 99-87-6	p-cymene	ACTIVE
CAS: 1310-73-2	sodium hydroxide	ACTIVE
CAS: 1589-47-5	2-methoxypropanol	ACTIVE
CAS: 98-55-5	alpha-Terpineol	ACTIVE
CAS: 112-54-9	Lauric aldehyde	ACTIVE
CAS: 1934-21-0	trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate	ACTIVE
CAS: 8002-09-3	Yarmor Pine oil, synthetic	ACTIVE
CAS: 106-22-9	dl-Citronellol	ACTIVE
CAS: 78-70-6	Linalool	ACTIVE

· Hazardous Air Pollutants

CAS: 101-84-8 diphenyl ether

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· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

CAS: 64-17-5 ethanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

CAS: 78-93-3 butanone

I

· **TLV (Threshold Limit Value)**

CAS: 64-17-5 ethanol

A3

CAS: 80-56-8 alpha-Pinene

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Other regulations, limitations and prohibitive regulations**

· **Substances of Very High Concern (SVHC) according to REACH, Article 57**

None of the ingredients is listed.

· **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.

· **Contact:**

· **Date of preparation / last revision** 10/01/2025 / 20

· **Abbreviations and acronyms:**

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

VOC: Volatile Organic Compounds (USA, EU)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

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TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Sensitization - Skin 1: Skin sensitization – Category 1

Carcinogenicity 1A: Carcinogenicity – Category 1A

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

US