

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/11/2021

Reviewed on 01/11/2021

1 Identification

- **Product identifier**
- **Trade name:** Kristallklar Premium
- **Article number:** 92100815
- **Application of the substance / the mixture** Glass Cleaner
- **Details of the supplier of the safety data sheet**
- Manufacturer/Supplier:**
Nextzett GmbH
An der Höhe 15
D-51674 Wiehl-Marienhagen
Deutschland
Tel: +49 2261 6095433
Fax: +49 2261 6095429
Email: info@nextzett.de / www.nextzett.de
- **Information department:** Chemtel
- **Emergency telephone number:** CHEMTEL 1-800-255-3924 (USA AND CANADA)

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard
H350 May cause cancer.

Carc. 1A



GHS05 Corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 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

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docusate sodium
pyridine-2-thiol 1-oxide, sodium salt
1,2-benzisothiazol-3(2H)-one
(R)-p-mentha-1,8-diene

Citral

· 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.

Classification system:

· NFPA ratings (scale 0 - 4)



· HMIS-ratings (scale 0 - 4)



· Other hazards

· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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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	Lineares (C12-14) Alcohol, ethoxyliert, sulfatiert, Natriumsalz	≥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%

- **Verordnung (EG) Nr. 648/2004 über Detergenzien / Kennzeichnung der Inhaltsstoffe**

anionic surfactants	≥15 - <30%
perfumes (D-LIMONENE, CITRAL, GERANIOL), preservation agents (pyridine-2-thiol 1-oxide, sodium salt, 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.

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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 item 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.
- **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	5.7 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	0.5 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	16 ppm
CAS: 112-31-2	decanal	19 ppm
CAS: 99-87-6	p-cymene	1,300 mg/m ³
CAS: 1310-73-2	sodium hydroxide	5 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

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CAS: 78-93-3	butanone	(Contd. of page 4) 4000* ppm
CAS: 101-84-8	diphenyl ether	96 ppm
CAS: 112-31-2	decanal	120 ppm
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.
- **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 item 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/m³, 1000 ppm
REL Long-term value: 1900 mg/m³, 1000 ppm
TLV Short-term value: 1880 mg/m³, 1000 ppm

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

REL Short-term value: 540 mg/m³, 150 ppm
Long-term value: 360 mg/m³, 100 ppm
TLV Short-term value: 369 mg/m³, 100 ppm
Long-term value: 184 mg/m³, 50 ppm

CAS: 102-71-6 Triethanolamine

TLV Long-term value: 5 mg/m³

CAS: 5392-40-5 Citral

TLV Long-term value: 32* mg/m³, 5* ppm
Skin; DSEN; *inhalable fraction + vapor

- **Additional information:** The lists that were valid during the creation were used as basis.

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· **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.

· **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 Nitrilkautschuk (0,33-0,5 mm) Polyvinylchlorid (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. |

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· 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 (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· 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:	>15.28 % >157.2 g/l / >1.31 lb/gal
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.

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11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

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

ATE (Acute Toxicity Estimate)		
Oral	LD50	716 mg/kg
CAS: 64-17-5 ethanol		
Oral	LD50	7,060 mg/kg (rat)
Inhalative	LC50/4 h	20,000 mg/l (rat)
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)
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)

- **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	Triphenylmethan-Farbstoff, Dihydrogen(ethyl)[4-[4-[ethyl(3-sulfonatobenzyl)]amino]-2'-sulfonatobenzhydryliden]cyclohexa-2,5-dien-1-yliden](3-sulfonatobenzyl)ammonium, Dinatriumsalz	3
CAS: 97-53-0	Eugenol	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available. ·

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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even 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 packagings:**

· **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.

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- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** not regulated

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	Lineares (C12-14) Alcohol, ethoxiliert, sulfatiert, Natriumsalz	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	docosate 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	Heptanatriumtrihydrogen[[bis[2-[bis(phosphonatomethyl)amino]ethyl]amino]methyl]phosphonat	ACTIVE
CAS: 3811-73-2	pyridine-2-thiol 1-oxide, sodium salt	ACTIVE
CAS: 14860-53-8	tetrapotassium (1-hydroxyethylidene)bisphosphonat	ACTIVE
CAS: 60376-08-1	Trikaliumhydrogen (1-Hydroxyethyliden) bisphosphonat	ACTIVE
CAS: 78-93-3	butanone	ACTIVE
CAS: 51566-62-2	Citronellyl nitrile	ACTIVE
CAS: 80-56-8	alpha-Pinene	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: 2634-33-5	1,2-benzisothiazol-3(2H)-one	ACTIVE
CAS: 7647-14-5	sodium chloride	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: 1589-47-5	2-methoxypropanol	ACTIVE
CAS: 1310-73-2	sodium hydroxide	ACTIVE

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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

· Hazardous Air Pollutants

CAS: 101-84-8 diphenyl ether

· 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 established by ACGIH)

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.

· 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

pyridine-2-thiol 1-oxide, sodium salt

1,2-benzisothiazol-3(2H)-one

(R)-p-mentha-1,8-diene

Citral

· Hazard statements

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

May cause cancer.

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· 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.

· 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.

· 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 01/11/2021 / -

· Abbreviations and acronyms:

- 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
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- 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)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit

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Acute Tox. 4: Acute toxicity - Category 4
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Dam. 1: Serious eye damage/eye irritation - Category 1
Skin Sens. 1: Skin sensitisation - Category 1
Carc. 1A: Carcinogenicity - Category 1A
*** Data compared to the previous version altered.**

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