



Safety Data Sheet

according to Regulation (EC) No 1907/2006

help:ex discolor f 6700 0200

Revision date: 10.08.2023

Product code: 67000200

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

1.1. Product identifier

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1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Ready-to-use special cleaner (alkaline) for the subsequent removal of stubborn discolorations such as tar, coffee, tea stains from removable dental restorations.

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

Company name: Renfert GmbH
Street: Untere Giesswiesen 2
Place: D-78247 Hilzingen
Telephone: +49 7731 8208-0
e-mail: info@renfert.com
Contact person: Frau Andris
e-mail: silke.andris@renfert.com
Internet: www.renfert.com

1.4. Emergency telephone number: IRL: 01 809 2566 (Healthcare Professionals) | GB: 0044 151 951 3317 (Health and Safety Executive (HSE) Chemicals)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Met. Corr. 1; H290
Skin Corr. 1; H314
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

2-aminoethanol

Signal word: Danger

Pictograms:



Hazard statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary statements

P280 Wear protective gloves and eye/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P390 Absorb spillage to prevent material damage.

Additional advice on labelling

The classification is based on the pH value (EC regulation No. 1272/2008).

2.3. Other hazards

To follow: TRGS 907 (2-aminoethanol)

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures



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Chemical characterization

Cleaning agent, alkaline

Hazardous components

| CAS No | Chemical name | Quantity | | |
|------------|---|--------------|------------------|--------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 141-43-5 | 2-aminoethanol | | | < 5 % |
| | 205-483-3 | 603-030-00-8 | 01-2119486455-28 | |
| | Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3; H332 H312 H302 H314 H318 H335 H412 | | | |
| 34590-94-8 | (2-methoxymethylethoxy) propanol | | | < 10 % |
| | 252-104-2 | | 01-2119450011-60 | |
| | | | | |
| 1310-58-3 | potassium hydroxide | | | < 2 % |
| | 215-181-3 | 019-002-00-8 | 01-2119487136-33 | |
| | Met. Corr. 1, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1; H290 H302 H314 H318 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|--|---------------------|----------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 141-43-5 | 205-483-3 | 2-aminoethanol | < 5 % % |
| | inhalation: LC50 = 1,487 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 2504 mg/kg; oral: LD50 = 1089 mg/kg STOT SE 3; H335: >= 5 - 100 | | |
| 1310-58-3 | 215-181-3 | potassium hydroxide | < 2 % % |
| | oral: LD50 = 333 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2 | | |

Labelling for contents according to Regulation (EC) No 648/2004

< 5 % phosphonates, < 5 % non-ionic surfactants.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Take off immediately all contaminated clothing and wash it before reuse.

After inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

After ingestion

Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate medical treatment required because corrosive injuries that are not treated are hard to cure. Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to the escape of irritating gases and vapours.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Do not inhale explosion and combustion gases.

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protection equipment.
Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Handle and open container with care.
Wear personal protection equipment (refer to section 8).
Avoid contact with skin, eyes and clothes.
Do not eat, drink or smoke when using this product.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately.
Wash hands before breaks and after work.
Avoid contact with eyes and skin.
Keep away from food, drink and animal feedingstuffs.

Further information on handling

To follow: TRGS 907 (2-aminoethanol)

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place.
Keep container tightly closed.

Hints on joint storage

Do not store together with: Acid

Further information on storage conditions

Recommended storage temperature: 5°C / 41°F - 40°C / 104°F

7.3. Specific end use(s)

Please refer to our internet website for more information. www.renfert.com
To avoid risks to human health and the environment, comply with the instructions for use.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limits**

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|------------|------------------------------------|-----|-------------------|---------------------|---------------|--------|
| 34590-94-8 | (2-Methoxymethylethoxy)-l-propanol | 50 | 308 | | TWA (8 h) | |
| 141-43-5 | 2-Aminoethanol | 1 | 2.5 | | TWA (8 h) | |
| | | 3 | 7.6 | | STEL (15 min) | |
| 1310-58-3 | Potassium hydroxide | - | 2 | | STEL (15 min) | |

8.2. Exposure controls



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Appropriate engineering controls

Safe handling: see section 7

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear eye/face protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

Suitable material: NR (natural rubber, Natural latex), Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,5 mm

Breakthrough time: ≥ 8 h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Respiratory protection

Provide adequate ventilation.

Respiratory protection necessary at: aerosol or mist formation

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|---|-------------------------------|
| Physical state: | Liquid |
| Colour: | blue |
| Odour: | earthy |
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | > 100 °C |
| Flammability: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |
| Flash point: | not applicable |
| Auto-ignition temperature: | not determined |
| Decomposition temperature: | not determined |
| pH-Value (at 20 °C): | 11,5 - 14 |
| Viscosity / kinematic: | not determined |
| Water solubility: | completely miscible |
| Partition coefficient n-octanol/water: | not determined |
| Vapour pressure: (at 20 °C) | 23 hPa |
| Density (at 20 °C): | 1,01 - 1,03 g/cm ³ |
| Relative vapour density: | not determined |

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

not explosive.

Further Information

No further relevant information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Violent reaction with: Acid

Corrosive to metals

10.4. Conditions to avoid

No special measures are necessary.



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10.5. Incompatible materials

Violent reaction with: Acid
Corrosive to metals

10.6. Hazardous decomposition products

No known hazardous decomposition products.

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.

ATEmix calculated

ATE (oral) 22224,5 mg/kg; ATE (dermal) 22449,0 mg/kg; ATE (inhalation vapour) 224,49 mg/l; ATE (inhalation dust/mist) 30,612 mg/l

| CAS No | Chemical name | Exposure route | Dose | Species | Source | Method |
|-----------|---------------------|-------------------------|-----------------|---------|--------|----------|
| 141-43-5 | 2-aminoethanol | oral | LD50 1089 mg/kg | Rat | | OECD 401 |
| | | dermal | LD50 2504 mg/kg | Rabbit | IUCLID | |
| | | inhalation (4 h) vapour | LC50 1,487 mg/l | Rat | IUCLID | |
| | | inhalation dust/mist | ATE 1,5 mg/l | | | |
| 1310-58-3 | potassium hydroxide | oral | LD50 333 mg/kg | Rat | | OECD 425 |

Irritation and corrosivity

Causes severe skin burns and eye damage. (On basis of test data)

Causes serious eye damage. (On basis of test data)

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

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

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Further information

The product has not been tested. The statement is derived from the properties of the single components.

To avoid risks to human health and the environment, comply with the instructions for use.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|----------------|---------|
| 141-43-5 | 2-aminoethanol | - 1,91 |

12.4. Mobility in soil

There are no data available on the mixture itself.



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12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No information available.

Further information

The product has not been tested. The statement is derived from the properties of the single components. Do not allow uncontrolled discharge of product into the environment.

To avoid risks to human health and the environment, comply with the instructions for use.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

hazardous waste: Dispose of waste according to applicable legislation.

Consult the appropriate local waste disposal expert about waste disposal.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

UN 1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S. (2-Amino-ethanol und Kaliumhydroxid Mischung)

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8



Marine transport (IMDG)

14.1. UN number or ID number:

UN 1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S. (2-Amino-ethanol and potassiumhydroxide mixture)

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8



Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

UN 1719

14.2. UN proper shipping name:

CAUSTIC ALKALI LIQUID, N.O.S. (2-Amino-ethanol and potassiumhydroxide mixture)

14.3. Transport hazard class(es):

8

14.4. Packing group:

II

Hazard label:

8



14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user



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Further information: see section 6, 7, 8

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): not applicable

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

1 - slightly hazardous to water

Additional information

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on persistent organic pollutants: not applicable

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not applicable

SECTION 16: Other information**Changes**

Abs. 2, 7, 9, 11, 16 * Data changed compared with the previous version.

Abbreviations and acronyms

PBT: persistent and bioaccumulative and toxic

vPvB: very persistent, very bioaccumulative

CAS: Chemical Abstracts Service (division of the American Chemical Society)

ATE: Acute Toxicity Estimate

LD50: lethal dose, 50%

LC50: lethal concentration, 50%

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement concernant le transport international ferroviaire de marchandises Dangereuses (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

VOC: volatile organic compound(s)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

| Classification | Classification procedure |
|--------------------|--------------------------|
| Met. Corr. 1; H290 | On basis of test data |
| Skin Corr. 1; H314 | On basis of test data |
| Eye Dam. 1; H318 | On basis of test data |

Relevant H and EUH statements (number and full text)

| | |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Restricted to professional users.



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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)