



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**help:ex discolor f 6700 0200**

Revision date: 15.01.2021

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

#### Manufacturer

Company name: Renfert GmbH  
Street: Untere Giesswiesen 2  
Place: D-78247 Hilzingen  
Telephone: +49 7731 8208-0  
e-mail: info@renfert.com  
Internet: www.renfert.com  
Telefax: +49 7731 8208-70

#### Supplier

Company name: Ivoclar Vivadent Pty. Ltd.  
Street: 1-5 Overseas Drive  
Place: Noble Park North VIC 317  
Telephone: + 61 3 9795 95  
Telefax: + 61 3 9795 9645

**1.4. Emergency telephone number:** 131 126 (Poisons Information Centre - 24 hours / 7 days)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Substance or mixture corrosive to metals: Met. Corr. 1

Skin corrosion/irritation: Skin Corr. 1

Serious eye damage/eye irritation: Eye Dam. 1

Hazard Statements:

May be corrosive to metals.

Causes severe skin burns and eye damage.

Causes serious eye damage.

### 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).



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## 2.3. Other hazards

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

#### Chemical characterization

Cleaning agent, alkaline

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification			
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	
22036-78-8	(((2-hydroxyethyl)imino)dimethylene)bisphosphonic acid, sodium salt			1 - < 5 %
	244-743-0			
	Met. Corr. 1, Eye Irrit. 2, Aquatic Chronic 3; H290 H319 H412			
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; H290 H302 H314			

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 = 14,87 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 1015 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

&lt; 5 % phosphonates, &lt; 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



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## 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.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General measures

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 eyes and skin.

When using do not eat, drink or smoke.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

### 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

Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

Please refer to our internet website for more information: [www.renfert.com](http://www.renfert.com)

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
34590-94-8	(2-methoxymethylethoxy) propanol	50	308		TWA (8 h)	WEL
141-43-5	2-Aminoethanol	1	2.5		TWA (8 h)	WEL
		3	7.6		STEL (15 min)	WEL
1310-58-3	Potassium hydroxide	-	2		STEL (15 min)	WEL

### 8.2. Exposure controls

#### Appropriate engineering controls

Safe handling: see section 7



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**Protective and hygiene measures**

- 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.

**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:  $\geq 8$  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
pH-Value (at 20 °C):	> 11,5
<b>Changes in the physical state</b>	
Melting point:	not determined
Boiling point or initial boiling point and boiling range:	> 100 °C
Flash point:	not applicable
<b>Flammability</b>	
Solid/liquid:	not applicable
Gas:	not applicable
<b>Explosive properties</b>	
not explosive.	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
<b>Self-ignition temperature</b>	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
Vapour pressure: (at 20 °C)	23 hPa
Density (at 20 °C):	1,01 - 1,03 g/cm <sup>3</sup>
Water solubility:	completely miscible
Partition coefficient n-octanol/water:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Relative vapour density:	not determined
Evaporation rate:	not determined

**9.2. Other information**

No data available

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The mixture 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.

**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.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
141-43-5	2-aminoethanol				
	oral	LD50 mg/kg 1089	Rat		OECD 401
	dermal	LD50 mg/kg 1015	Rabbit	IUCLID	
	inhalation (4 h) vapour	LC50 14,87 mg/l	Rat		
	inhalation aerosol	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.  
Causes serious eye damage.**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.

**Further information**The product has not been tested. The statement is derived from the properties of the single components.  
To avoid risks to man and the environment, comply with the instructions for use.**SECTION 12: Ecological information****12.1. Toxicity**

There are no data available on the mixture itself.

**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



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### 12.4. Mobility in soil

There are no data available on the mixture itself.

### 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.

### 12.7. 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 man 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:

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:

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:

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

Further information: see section 6, 7, 8



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**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

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 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on substances that deplete 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 hazardous chemicals: not applicable

**SECTION 16: Other information****Abbreviations and acronyms**

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

ATE: Acute Toxicity Estimates

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.
H319	Causes serious eye irritation.
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.)*