

safety data sheet

to product

Renfert help:ex plaque f #67000100

1. Identification of the substance / preparation and company

Emergency number:

Tox Info Suisse, Freiestrasse 16, 8032 Zürich; Tox-Info Suisse: 145 (24h-operation); info@toxinfo.ch;
In case of emergency: Tel. 145; (abroad: +41 44 251 51 51); information: +41 44 251 66 66

Company name:



abc dental ag

Gaswerkstrasse 6, 8952 Schlieren
Tel. 044 755 51 00, Fax 044 755 51 01



Condor Dental Research CO Sàrl

Ch. des Ciberles 2, CP 300, 1896 Vouvry
Tel. 024 482 61 61, Fax 024 482 61 69



Curaden AG Dentaldepot

Riedstrasse 12, 8953 Dietikon
Tel. 041 319 45 00, Fax 041 319 45 90



dema dent AG

Furtbachstrasse 16, 8107 Buchs
Tel. 044 838 65 65, Fax 044 838 65 66



Flexdental Services SA

Route de la Corniche 1, 1066 Epalinges
Tel. 0848 336 825, Fax 021 907 67 02



Jordi Röntgentechnik AG

Dammstrasse 70, 4142 Münchenstein
Tel. 061 417 93 93, Fax 061 417 93 94



Kaladent AG

Schachenstrasse 2, 9016 St. Gallen
Tel. 071 282 80 80, Fax 071 282 80 81



Lometral AG

Binzenholzstrasse 20, 5704 Egliswil
Tel. 062 775 05 05, Fax 062 775 33 07



Novadent AG

Sägereistrasse 17, 8152 Glattbrugg
Tel. 044 880 20 20, Fax 044 811 04 40



Smart Dentist AG

Verenastrasse 4b, 8832 Wollerau
Tel. 044 726 20 20, Fax 044 726 20 25



Safety Data Sheet

according to 29 CFR 1910.1200(g)

help:ex plaque f

6700 0100

Revision date: 03/14/2021

Product code: 67000100_USA

Page 1 of 7

1. Identification

Product identifier

help:ex plaque f 6700 0100

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Ready-for-use acid-based cleaning agent for easy removal of stubborn deposits such as plaque, tartar and denture adhesive from removable dental restorations.

Uses advised against

No information available.

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: Renfert USA
Street: 3718 Illinois Avenue
Place: USA-60174 St. Charles IL
Telephone: (001) 800336-7422
e-mail: Bob@RenfertUSA.com
Contact person: Charlie Hagy
e-mail: Charlie@RenfertUSA.com
Internet: www.renfert.com
Telephone: +1 (630) 5497380

Emergency phone number:

USA: 800-222-1222 (National Poison Control number) | CA: British Columbia: 800-567-8911 or 604-682-5050 Alberta: 1-800-332-1414 or 944-1414 Saskatchewan: 1-866-454-1212 Manitoba: 1-855-776-4766 Ontario: 1-800-268-9017 Quebec: 1-800-463-5060 New Brunswick: 911 New Foundland: 1-866-727-1110 Northwest Territories: 1-800-332-1414 Nova Scotia: 1-800-565-8161

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Corrosive to metals: Met. Corr. 1
Skin corrosion/irritation: Skin Corr. 1
Serious eye damage/eye irritation: Eye Dam. 1

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



Hazard statements

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

Precautionary statements

Wear protective gloves and eye/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
Absorb spillage to prevent material damage.

Additional advice on labelling

The classification is based on the pH value.

Hazards not otherwise classified

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

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

help:ex plaque f**6700 0100**

Revision date: 03/14/2021

Product code: 67000100_USA

Page 2 of 7

3. Composition/information on ingredients**Mixtures****Chemical characterization**

Cleaning agent, acidic

Hazardous components

CAS No	Components	Quantity
75-75-2	methanesulphonic acid	< 5 %
7647-01-0	hydrochloric acid	< 10 %
112-34-5	2-(2-butoxyethoxy)ethanol	< 5 %

4. First-aid measures**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.

Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

Indication of any immediate medical attention and special treatment neededImmediate medical treatment required because corrosive injuries that are not treated are hard to cure.
Treat symptomatically.**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

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

Specific hazards arising from the chemical

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

Special protective equipment and precautions for fire-fightersIn case of fire: Wear self-contained breathing apparatus.
Do not inhale explosion and combustion gases.**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General measures**Use personal protection equipment.
Provide adequate ventilation.**Environmental precautions**

Do not allow to enter into surface water or drains.

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.

Reference to other sectionsSafe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13**7. Handling and storage****Precautions for safe handling**

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

help:ex plaque f**6700 0100**

Revision date: 03/14/2021

Product code: 67000100_USA

Page 3 of 7

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.

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: Alkali (lye)

Further information on storage conditions

- Keep away from food, drink and animal feedingstuffs.

8. Exposure controls/personal protection**Control parameters****Exposure limits**

CAS No.	Substance	ppm	mg/m ³	f/cc	Category	Origin
7647-01-0	Hydrogen chloride	C 5	C 7		Ceiling	PEL
		C 5	C 7		Ceiling	REL

Exposure controls**Appropriate engineering controls**

- Safe handling: see section 7

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: Butyl caoutchouc (butyl rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber), FKM (fluoro 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.

9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical state:	Liquid
Color:	colorless
Odor:	characteristic
pH-Value (at 20 °C):	< 1
Changes in the physical state	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	> 100 °C

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

help:ex plaque f**6700 0100**

Revision date: 03/14/2021

Product code: 67000100_USA

Page 4 of 7

Flash point:	not applicable
Flammability	
Solid/Liquid:	not applicable
Gas:	not applicable
Explosive properties	
not explosive.	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Auto-ignition temperature:	not determined
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Decomposition temperature:	not determined
Vapor pressure: (at 20 °C)	23 hPa
Density (at 20 °C):	1,02 - 1,06 g/cm ³
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

Other information

No data available

10. Stability and reactivity**Reactivity**

No hazardous reaction when handled and stored according to provisions.

Chemical stability

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

Possibility of hazardous reactionsViolent reaction with: Alkali (lye)
Corrosive to metals**Conditions to avoid**

No special measures are necessary.

Incompatible materialsViolent reaction with: Alkali (lye)
Corrosive to metals**Hazardous decomposition products**

No known hazardous decomposition products.

11. Toxicological information**Information on toxicological effects****Acute toxicity**

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

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
75-75-2	methanesulphonic acid				
	oral	LD50 mg/kg	1157,5	Rat	OECD 401
	dermal	LD50 mg/kg	> 1000	Rabbit	OECD 402

Irritation and corrosivityCauses severe skin burns and eye damage
Causes serious eye damage**Sensitizing effects**

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

Carcinogenic/mutagenic/toxic effects for reproduction

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

help:ex plaque f**6700 0100**

Revision date: 03/14/2021

Product code: 67000100_USA

Page 5 of 7

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

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

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

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Hydrochloric acid (CAS 7647-01-0) is listed in group 3.

Carcinogenicity (NTP): No ingredient of this mixture is listed.

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.

12. Ecological information**Ecotoxicity**

There are no data available on the mixture itself.

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.

Bioaccumulative potential

There are no data available on the mixture itself.

Mobility in soil

There are no data available on the mixture itself.

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.

13. Disposal considerations**Waste treatment methods****Disposal recommendations**

hazardous waste: Dispose of waste according to applicable legislation.

Consult the appropriate local waste disposal expert about waste disposal.

Contaminated packaging

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

14. Transport information**US DOT 49 CFR 172.101****UN/ID number:**

UN 1760

Proper shipping name:

corrosive liquids, n.o.s.

Transport hazard class(es):

8

Packing group:

II

Hazard label:

8

**Marine transport (IMDG)****UN number:**

UN 1760

UN proper shipping name:

CORROSIVE LIQUID, N.O.S. (Alkylsulphonic acid and hydrochloric acid mixture)

Transport hazard class(es):

8

Packing group:

II

Hazard label:

8



**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

help:ex plaque f**6700 0100**

Revision date: 03/14/2021

Product code: 67000100_USA

Page 6 of 7

Air transport (ICAO-TI/IATA-DGR)

UN number: UN 1760
UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Alkylsulphonic acid and hydrochloric acid mixture)
Transport hazard class(es): 8
Packing group: II
Hazard label: 8

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Further information: see section 6, 7, 8

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

15. Regulatory information**U.S. Regulations****National regulatory information**

SARA Section 304 CERCLA:
Hydrochloric acid (conc. < 37%) (7647-01-0): Reportable quantity = 5,000 (2270) lbs. (kg)
SARA Section 311/312 Hazards:
methanesulphonic acid (75-75-2): Immediate (acute) health hazard
Hydrochloric acid (conc. < 37%) (7647-01-0): Immediate (acute) health hazard
2-(2-butoxyethoxy)ethanol (112-34-5): Immediate (acute) health hazard
Clean Air Act Section 112(b):
Hydrochloric acid (conc. < 37%) (7647-01-0)

State Regulations**Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)**

This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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

16. Other information**Hazardous Materials Information Label (HMIS)**

Health: 3
Flammability: 0
Physical Hazard: 1
Personal Protection: B
Revision date: 03/14/2021
Revision No: 1,1

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



Safety Data Sheet

according to 29 CFR 1910.1200(g)

help:ex plaque f**6700 0100**

Revision date: 03/14/2021

Product code: 67000100_USA

Page 7 of 7

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)

Other data

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.

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