



according to 29 CFR 1910.1200(g)

help:ex plaque p remover

Revision date: 08/01/2023 Product code: 67000000_USA Page 1 of 7

1. Identification

Product identifier

help:ex plaque p remover

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

help:ex plaque p is an acid-based cleaning agent in a powder form. It is used for cleaning dental restorations e.g. full dentures, splints and orthodontic appliances.

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

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 Telephone: +1 (630) 5497380

e-mail: Charlie@RenfertUSA.com

Internet: www.renfert.com

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

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2A

Label elements

29 CFR Part 1910.1200

Signal word: Warning Pictograms:



Hazard statements

Causes skin irritation
Causes serious eye irritation

Precautionary statements

Wear protective gloves and eye/face protection. If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified

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.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Cleaning agent



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Hazardous components

CAS No	Components	Quantity
5329-14-6	sulphamic acid	< 25%

4. First-aid measures

Description of first aid measures

General information

Take off contaminated clothing and wash it before reuse.

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water.

If skin irritation occurs: Get medical advice/attention.

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.

If eye irritation persists: Get medical advice/attention.

After ingestion

Rinse mouth immediately and drink 1 glass of of water.

Do NOT induce vomiting.

Call a physician immediately.

When in doubt or if symptoms are observed, get medical advice.

Most important symptoms and effects, both acute and delayed

The following symptoms may occur:

Causes skin irritation. Causes eye irritation. Inhalation of dust may cause irritation of the respiratory system.

The ready-to-use solution has a pH <1. Causes burns.

Indication of any immediate medical attention and special treatment needed

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-fighters

Do not inhale explosion and combustion gases.

In case of fire: Wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

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

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothes.

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

When diluting/dissolving, always have the water ready first, then slowly stir in the product.



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Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work.

Keep away from food, drink and animal feedingstuffs.

Further information on handling

Personal protection equipment (PPE): see section 8

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a cool dry place.

Hints on joint storage

Do not store together with: Alkali (lye) Further information on storage conditions

Ready-to-use solution must be used immediately - do not store.

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

8. Exposure controls/personal protection

Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

Exposure controls





Appropriate engineering controls

See section 7. No additional measures necessary.

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. (EN ISO 374)

Suitable material: NBR (Nitrile rubber)
Thickness of the glove material > 0,11 mm

Breakthrough time: > 480 min

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

Usually no personal respirative protection necessary.

Avoid dust formation. Provide adequate ventilation.

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: solid
Color: white
Odor: odorless

Melting point/freezing point:

Boiling point or initial boiling point and boiling

not applicable

range:

Flammability: not applicable
Lower explosion limits: not applicable
Upper explosion limits: not applicable
Flash point: not applicable
Auto-ignition temperature: not determined





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Decomposition temperature: not determined

pH-Value (at 20 °C): The ready-to-use solution has a pH <1. Viscosity / kinematic: not applicable

Water solubility: completely miscible Partition coefficient n-octanol/water: not determined

Vapor pressure: not applicable
Density: not determined
Bulk density: not determined
Relative vapour density: not applicable

Other information

Information with regard to physical hazard classes

Explosive properties

not hazard of explosion according to EU A.14

Oxidizing properties Not oxidising.

Further Information

The ready-to-use solution has a pH <1.

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

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

Possibility of hazardous reactions

Violent reaction with: Alkali (lye)

Conditions to avoid

No special measures are necessary.

Incompatible materials

No information available.

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.

Irritation and corrosivity

Causes skin irritation

Causes serious eye irritation

Sensitizing 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.

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): No ingredient of this mixture is listed.

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

Aspiration hazard

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

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.

Other information

The ready-to-use solution has a pH <1. Avoid contact with eyes and skin.

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

Further information

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





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12. Ecological information

Ecotoxicity

There are no data available on the mixture itself.

Persistence and degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

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

Bioaccumulative potential

No indication of bioaccumulation potential.

Mobility in soil

No information available.

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.

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

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Powder: hazardous waste

Cleaning agent, not neutralized: hazardous waste

Cleaning agent, neutralized: Disposable via wastewater, if previously agreed with your local sewage treatment plant.

Contaminated packaging

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

14. Transport information

U.S. DOT 49 CFR 172.101

UN 2967

Proper shipping name: SULFAMIC ACID

Transport hazard class(es):8Packing group:IIIHazard label:8



Marine transport (IMDG)

UN number or ID number: UN 2967

UN proper shipping name: SULPHAMIC ACID

Transport hazard class(es):8Packing group:IIIHazard label:8



Marine pollutant:





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Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: UN 2967
UN proper shipping name: Sulphamic acid

Transport hazard class(es):8Packing group:IIIHazard 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 Inventory TSCA

All ingredients of the mixture are public/active listed or exempted.

National regulatory information

SARA Section 311/312 Hazards:

sulphamic acid (5329-14-6): Immediate (acute) health hazard

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.

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

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

16. Other information

Hazardous Materials Information Label (HMIS)

Health:2Flammability:0Physical Hazard:1Personal Protection:B

Changes

Revision date: 08/01/2023 Revision No: 1,3

Abs. 2, 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





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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.)



help:ex plaque p Neutralizer

Revision date: 08/02/2023 Product code: 6700_Neutralizer_USA Page 1 of 6

1. Identification

Product identifier

help:ex plaque p Neutralizer

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Powder for neutralizing help:ex plaque p cleaning liquid

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

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 Telephone: +1 (630) 5497380

e-mail: Charlie@RenfertUSA.com

Internet: www.renfert.com

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

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

Label elements

Hazards not otherwise classified

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.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Mixture of mineral salts, fillers

Hazardous components

none (according to 29 CFR 1910.1200(g))

4. First-aid measures

Description of first aid measures

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.



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After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Rinse mouth immediately and drink 1 glass of of water.

Most important symptoms and effects, both acute and delayed

No known symptoms to date.

Indication of any immediate medical attention and special treatment needed

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-fighters

No special fire protection measures are necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Use personal protection equipment.

Environmental precautions

No special environmental measures are necessary.

Methods and material for containment and cleaning up

Other information

Take up mechanically.

Reference to other sections

Safe handling: see section 7

Personal protection equipment (PPE): see section 8

Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothes.

Use only in well-ventilated areas.

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

Avoid contact with skin, eyes and clothes.

Avoid dust formation.

Wash hands before breaks and after work.

Keep away from food, drink and animal feedingstuffs.

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.

Further information on storage conditions

Protect against: UV-radiation/sunlight

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

8. Exposure controls/personal protection

Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

Exposure controls



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Appropriate engineering controls

See section 7. No additional measures necessary.

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. 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

Usually no personal respirative protection necessary.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Powder Color: white Odor: odorless

Melting point/freezing point:

Boiling point or initial boiling point and boiling

not applicable

range:

Flammability: not applicable Lower explosion limits: not applicable Upper explosion limits: not applicable Flash point: not applicable Auto-ignition temperature: not determined Decomposition temperature: not determined pH-Value: not applicable Water solubility: practically insoluble Partition coefficient n-octanol/water: not determined Vapor pressure: not determined Density: not determined Relative vapour density: not applicable

Other information

Explosive properties

not hazard of explosion according to EU A.14

Other safety characteristics

No further relevant information available.

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

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

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

No special measures are necessary.

Incompatible materials

No special measures are necessary.

Hazardous decomposition products

No known hazardous decomposition products

11. Toxicological information



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Information on toxicological effects

Acute toxicity

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

Irritation and corrosivity

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

Sensitizing 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.

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

Aspiration hazard

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

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

12. Ecological information

Ecotoxicity

There are no data available on the mixture itself.

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

There are no data available on the mixture itself.

Mobility in soil

There are no data available on the mixture itself.

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.

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.

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

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

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

14. Transport information

U.S. DOT 49 CFR 172.101

<u>Proper shipping name:</u>

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.



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Air transport (ICAO-TI/IATA-DGR)

Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

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

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.

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

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

16. Other information

Hazardous Materials Information Label (HMIS)

Health: 0
Flammability: 0
Physical Hazard: 0
Personal Protection: B

Changes

 Revision date:
 08/02/2023

 Revision No:
 1.3

Abs. 2, 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)

Other data

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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.)