

Material Safety Data Sheet
According to decree (EC) No. 2020 / 878

Revision: 03

Revision date: 12.12.2023 FaWi

1. Identification of the substance/mixture and of the company/undertaking**Name of the Product:**

Aquafluor

Relevant identified uses of the substance or mixture and uses advised against:

caries prophylaxis, desensitization of sensitive necks

Manufacturer / Company:

dent a pharm Prod.gesell. mbH

Street:

Schusterring 35

Zip-Code / Town:

D-25355 Barmstedt

Contact for technical information:

+49 (0) 41 23 / 9228 0

Phone / Fax / E-Mail:+49 (0) 4123 / 9228 0 / +49 (0) 4123 / 9228 49 / info@wp-dental.de**Emergency number:**Dr. Wolfgang Willmann
+49 (0) 170 – 405 30 52**2. Hazards Identification****2.1 Classification of the substance or mixture**

The concentration of the fluorides in the acrylate-dispersion corresponds to the concentration as they are known in toothpastes. The acrylates in the dispersion are non-toxic. Swallowing the content of several bottles containing the fluoride varnish could be questionable. Humans with acrylic allergy should be careful with applying.

Hazard determining component for labeling:

None

Additional danger notes for humans and environment:

None

The product does not contain any substances or mixtures of substances that have endocrine disrupting properties

Label elements**According to Regulation (EC) No. 1272/2008 (CLP):**

Material Safety Data Sheet
According to decree (EC) No. 2020 / 878

Revision: 03

Revision date: 12.12.2023 FaWi

No marking required

3. Composition / Information on ingredients**Chemical characterization:**

Aqueous dispersion of an acrylic polymer

| Inhaltsstoff | CAS-Nr. | EINECS-Nr. | Gehalt in % | Kennzeichnung |
|--|-----------|------------|-------------|--|
| Sodium fluoride | 7681-49-4 | 231-667-8 | <0,1 | H301 Acute Tox.3 H315 Skin Irrit. 2 Eye Irrit. 2 |
| 2,2-((3-((2-Hydroxyethyl)octadecylamino)propyl)imino)bis-ethanol, Dihydrofluorides | 6818-37-7 | | 3 - 6 | H302 Acute Tox.4 |
| 4-hydroxybenzoic acid methyl ester | 99-76-3 | 202-785-7 | 0,1-0,5 | H315 Skin Irrit. 2 H319 Eye Irrit. 2 STOT SE 3 |

4. First-aid-Measures**General Advices:**

None.

Skin contact:

Wash with plenty of water and soap and rinse thoroughly.

If in eyes:

In case of contact with eyes rinse immediately with plenty of water. With persistent irritation seek medical advice.

After inhalation:

Remove person to fresh air and keep comfortable for breathing.

If swallowed:

Rinse mouth, induce vomiting, consult a doctor.

5. Fire-Fighting-Measures**Suitable extinguishing agents::**

foam, extinguishing powder, water

Special hazards:

None-flammable; in case of fire emergence of dangerous combustion gases possible: hydrofluoric, nitrogen oxides

Special equipment for fire-fighter:

Material Safety Data Sheet
According to decree (EC) No. 2020 / 878

Revision: 03

Revision date: 12.12.2023 FaWi

Staying in the danger zone only with suitable chemical safety clothes and air independent breathing apparatus. Avoid skin contact while maintaining safety distance or wearing protective clothing.

6. Accidental release measures

The acrylate-dispersion forms a varnish. Therefore appropriate precautionary measures must be taken for this. The liquid varnish forms a firm and long lasting coating. To remove you need to influence with water for a long time.

Security measures related to persons:

Do not inhale vapors and aerosols. Avoid substance contact. Arrange for fresh air.

Environmental protection measures:

Do not let it get into the canalization/groundwater.

Methods for cleaning/absorption:

Absorb with liquid-binding material (for example Chemizorb) and dispose of.

7. Handling and Storage**Handhabung**

Keep bottle tightly closed.

When working with chemicals the usual precautions are to be observed.

Wash hands before breaks and immediately after handling the product.

Precautions for safe handling:

Take attention to the manual. Only to be used for its intended purpose.

Technical measures:

Provide adequate ventilation.

Information about fire- and explosion protection:

No special measures necessary.

Storage**Conditions of storage:**

Storage temperature: protect against frost and heat damage.

Storage time: 3 years, provided the storage conditions are obeyed.

Storage class: 12 (non-combustible liquids)

8. Exposure controls and personal protective equipment**Protective equipment:**

Material Safety Data Sheet
According to decree (EC) No. 2020 / 878

Revision: 03

Revision date: 12.12.2023 FaWi

The usual precautionary measures for contact with chemicals are to observe. Store work clothing separately. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Breathing protection: only necessary with appearance of vapors or aerosols.

Eye protection: Safety glasses are recommended with handling this liquid product.

Hand protection: Disposable gloves are sufficient for working in the field.
Body protection: wear professional work clothes.

Advice for hygienic at work station: Change contaminated clothing. Preventive skin protection recommended. Wash hands after work. PNCE- and DNCL values are not available

9. Physical and chemical properties

Appearance:

form: liquid
 appearance: whitish
 colour: colourless (yellowish)
 odor: weak characteristic smell

Safety relevant data:

| | |
|--------------------------|--------------------------------------|
| Solidification point: | < 0 ⁰ C |
| Flashpoint: | no determined |
| Ignition temperature: | not applicable |
| Autoflammability: | not applicable |
| Vapour pressure: | 23 hPa at 20 ⁰ C (Wasser) |
| Solubility in water: | can be mixed |
| Relative vapour density: | <1 at 20 ⁰ C |
| pH-Value: | about 5 at 20 ⁰ C |
| Viscosity (dynamically) | max. 100 mPa/s at 20 ⁰ C |

10. Stability and Reactivity

Conditions to avoid:

Heating

Materials to avoid:

There are expected no hazardous reactions for intended use.

Material Safety Data Sheet
According to decree (EC) No. 2020 / 878

Revision: 03

Revision date: 12.12.2023 FaWi

Dangerous decomposition products:

None, if handled and stored appropriately (in the event of fire, see heading 5)

More details:

However, if the date of expiry and/or storage temperature is significantly exceeded, then the product can polymerise under heat generation.

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11. Details of Toxicology**Acute oral toxicity**

Toxicological data for the preparation are not available.

For products of similar composition there was found a LD50 (oral, rat) of about more than 5000 mg/kg.

Subacute to chronic toxicity

Based on practical observations in humans: not known.

Toxicokinetics:

Following the new directives of REACH there have to be made various informations About toxicokinetics, metabolization and the distribution of the substance in the organism at this point: there were no data found.

Information about other hazards**Endocrine disrupting properties**

The product does not contain any substances or mixtures of substances that have endocrine disrupting properties

Further informations:

The product should be handled with the care usual when dealing with chemicals.

General informations:

Allergic reactions to methacrylates are possible.

12. Ecological information**fish toxicity:**

No data known.

Aquatic organisms:

No data known.

Bacterial toxicity:

No data known.

Mobility:

No data known.

Further ecological information:

Do not release uncured material into soil, water or sewerage system

Bioaccumulation potential

No data known.

Material Safety Data Sheet
According to decree (EC) No. 2020 / 878

Revision: 03

Revision date: 12.12.2023 FaWi

Result of the PTB- and vPvBassessment:

Endocrine disruption potential

13. Disposal considerations**Product:**

The product can be disposed in accordance with local regulations.

Waste code according to AVV Waste classification:

18 01 07 (have a look at the waste code for methacrylate products)

Wastes from natal care, diagnosis, treatment or prevention of disease
in humans 18 01 01 Sharps (except 18 01 03)**Packaging:**

Uncontaminated packaging can be recycled.

14. Transport information**Land transport ADR/RID**

Not classified as dangerous in the meaning of transport regulations.

Marine transport IMDG/GGVSee

Not classified as dangerous in the meaning of transport regulations.

Air transport ICAO-TI and IATA-DGR

Not classified as dangerous in the meaning of transport regulations.

15. Legal provisions**Indications of danger:****2.1 Classification of the mixture:**

| Inhaltsstoff | CAS-Nr. | EINECS-Nr. | Gehalt in % | Kennzeichnung |
|--|-----------|------------|-------------|--|
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| 4-hydroxybenzoic acid methyl ester | 99-76-3 | 202-785-7 | 0,1-0,5 | H315 Skin Irrit. 2 H319 Eye Irrit. 2 STOT SE 3 |
|------------------------------------|---------|-----------|---------|--|

The concentration of the flourides in the dispersion of acrylates corresponds to the concentration of those in tooth paste. The acrylates in the dispersion are non-toxic. Swallowing the content of several bottles containing the aqueous dispersion may indicate a health risk.

People who are allergic to methacrylates should be careful.

Hazardous components for labelling

none

Explication of special hazards for human health and environment:

none

Labelling elements:**labelling according to the GHS/CLP:**

not required

16. Other information**Applicable EG-Guidelines:**

Guideline for preparation (1999/45/EC), at last changed by the guideline 206/8/EC.

Substance Guideline (67/548/EWG), changed by the guideline 2006/121 EC.

REACH-Guideline (EC) No. 1907/2006, at last changed by the REACH-Guideline 2020/878.

Restrictions of use by the manufacturer:

For dental use only.

Other notes:origin: ¹ <http://www.baua.de>² <http://www.arbeitssicherheit.de>

Some of the presented informations and conclusions are from sources that are no direct results from test-data on the product itself.

The information on this safety data sheet agree with the regulation (EG) Nr. 1907 / 2006 EU.

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Disclaimer of liability

The informations given on this safety data sheet are based on sources which we consider reliable. However no warranty or declaration, either explicit or implicit, is given as to their accuracy or completeness.

The conditions and methods of handling, storage, use or disposal of the product are outside our control and may be outside our knowledge.

For this and other reasons we do not assume any responsibility for the loss, the damage to the product or other costs, arising directly or indirectly from the use, storage or disposal of the product.

This safety data sheet was specially built only for this product and is only be used for this one. The informations given on this safety data sheet are inapplicable when this product is used as a component of another product.

Changes made since the last version

Adaption to the regulation REACH (EG)Nr. 2020/878

Department issuing MSDS:

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