

Material Safety Data Sheet
According to decree (EC) No. 1907 / 2006

Revision: 5

Revision Date 22.08.2017 SW

1. Chemical Product and Company Identification**Product name:**

(ANA Bond) Enamel Fix

Application of the product:

Connection between the dentin and composite

Manufacturer:

Dent a pharm

Street:

Schusterring 35

Zip-Code / Town:

D-25355 Barmstedt

Contact for technical information:

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Phone / Fax / E-Mail:+49 (0) 4123 / 9225 0 / +49 (0) 4123 / 9225 48 / info@dent-a-pharm.de**Emergency Information:**

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2. Hazard Identification:**2.1 Classification of the substance or mixture****According to Regulation (EC) No. 1272/2008:**

- | | |
|-----------------|--------------------------------------------|
| - Skin irrit. 2 | H315 (Causes skin irritation) |
| - Eye irrit. 2 | H319 (Causes serious eye irritation) |
| - Skin sens. 1 | H317 (May cause an allergic skin reaction) |
| - STOT SE 3 | H335 (May cause respiratory irritation) |

2.2 Label elements**Labelling according to Regulation 1272/2008 (GHS/CLP)****Warning****H315**

P264

P280

P302+P352

P321

P332+P313

P362+P364

causes skin irritation

Wash...thoroughly after handling.

Wear protective gloves/Protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water/...

Specific treatment (see...on this label)

If skin irritation occurs: get medical advice/attention

Take off contaminated clothing and wash it before reuse.

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H319 causes serious eye irritation
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

H335 may cause respiratory irritation
P271 Use only outdoors or in a well-ventilated area.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER/doctor/...if you feel unwell.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

3. Composition/Information on Ingredients

Chemical characterization:

Hazardous Ingredients	Cas-No.	EINECS-No.	Percentage (%)
1,6-Hexandioldimethacrylate	6606-59-3	229-551-7	0-30 %
Aliphatic urethane dimethacrylate			0-30 %
Bisphenol-A-bis (hydroxypropylmethacrylate)	1565-94-2		0-40 %
2-Hydroxyethylmethacrylate	868-77-9	212-782-2	0-6 %

4. First-Aid-Measures

General Advices:

Take off with product contaminated clothes.

After skin contact:

Remove by washing with water and soap.

After eye contact:

Rinse eyes an efficient time while eyes are open. Contact ophthalmologist if irritation is persisting.

After inhalation:

Take person to fresh air.

After swallowing:

Contact a doctor.

5. Fire-Fighting-Measures

Suitable extinguishing agents:

Foam, dry powder, carbon dioxide, waterspray-stream, - Adjust fire-fighting-measures- to ambient.

For safety reasons unsuitable extinguishing media:

Not known

Protective equipment for fire-fighters:

Use conventional measures to combat chemical fires, that means use self-contained breathing apparatus (isolating-unit).

6. Accidental release measures

Personal precautions:

Arrange for fresh air.

Environmental protection measures:

Do not drain material into canalization.

Methods for cleaning / absorption:

Bigger quantities: Pick up material mechanically. (pump down) observe „ex-protection“

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Smaller quantities: Pick up with binding material (such as: sand, diatomaceous earth, acid binding agent, universal binding agent, sawdust)

7. Handling and Storage

Handling:

The conventional precautions for works with chemicals are to be adhered.
 Wear overall while working. Avoid skin contact by using of instruments and minimal-contact-techniques.
 For fine-manual-works wear protection-gloves made of polyethylene for ex. Ethiparat protection-gloves afford protection for approx. 5-10 minutes (based on experiences of the past time/literature.)

Wash hands before and after work as well as before having a break.

Advice for safe handling:

Observe guidance of enclosed instruction for use.
 Only for intended application.

Technical Measures:

Arrange for adequate ventilation.

Information about fire- and explosion protection:

No special measures necessary.

Storage conditions:

Storage temperature: Store material at a dry, cool and sunprotected place.
 Storage time: 3 years if storage conditions will be kept.

8. Exposure Controls/Personal Protection

Limit values for the exposition at work station and / or biological limit values work station limit values (AGW) Germany

PNCE and DNCL-Values as to be possibly worked out in a preparation safety report do not exist.

Personal protective equipment:

Pay attention of protection- and hygienic measures. Protection clothes must be stored separately. The usual precaution measures at handling with chemicals must be attended.

Breathing protection: If bigger quantities (at least 100 or 200 ml) were grouted:
 Temporary industrial gas mask, filter A
 Breathing protection for smaller quantities (10 ml or less):
 Not necessary

Eye protection: Wear protection goggles when working with material

Hand protection: Sensibilisation: Wearing of applicable protection gloves is recommended.
 (by experience of the past / literature) for example Ethiparat-gloves for 5-10 minutes, application of No-touch-Technique, minimal-contact-techniques is recommended.

Body protection: Wear business usual protection clothes.

Advices for hygienic

At work station: Comply business usual protection- and hygienic measures.
 Preventive skin protection. Wash hands and skin after finishing work.

Other protection measures: None

9. Physical and chemical Properties

Appearance:

Form: liquid
 Appearance: viscose liquid
 Colour: colourless (yellowlike)

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Odour/Flavour: acrylates / methacrylates

Safety relevant data:

Flash point: not available (approx. > 100 °C)
Appreciated by the flash point of the ingredients.
No symbol necessary

Solubility in water: insoluble in water
Solubility in acetic acid: soluble
Solubility in isopropanol: partly soluble
Relative density: not applicable
PH-Value: not applicable

10. Stability and Reactivity**Conditions to avoid:**

Beware of heat, solar radiation and light impact to avoid early slow polymerization.

Substances to avoid:

Radical former (product polymerises slowly at contact)

Hazardous decomposition products:

None, if used according to directions.

Further information:

After considerably exceedance of storage time and / or exceedance of storage temperature it is possible that the product starts polymerizing under low heat impact.

11. Toxicological information

At skin: It can not be excluded that irritations occur during longer or frequent skin contact.

At eyes: Under longer impact of the product and irritation of the mucous can be caused.

Further information: Longer contact with skin and eyes should be avoid. Aerosol and vapors in high concentration can cause irritation of the mucous / respiratory system. (Nose, fauces, lung)

Kinetic of the toxic reaction:

According the new Material Safety Data Sheet according to REACH, specifications about kinetic of the toxic reaction, metabolism of the substance and allocation of the substance in the human body must be mentioned at this place. Data for this is not available.

Further information:

By appropriate exposure and conventionally use and to our experiences and information the product causes no hazardous effects.

Further details:

The product has to be handled with the usual care when handling chemicals. Methacrylates may cause allergical reactions.

12. Ecological information

Persistence and degradability: not applicable

Further information:

Do not allow product to reach ground water, body of waters or sewage system.

Bioaccumulation potential:

No data available

Effect of the determination off he PTB- and vPvB-Report:

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Endocrine disruption potential.

If the material causes hormonal effects or prevents them is unknown to us.

13. Disposal considerations

Substance / Preparation:

To dispose of accordingly with notice of the local regulations of authority.

Do not empty into drains.

Disposal key according to AVV regulation:

16 03 05 (see disposal code for dental products with methacrylates)

Organic disposal, that contains hazardous substances.

Package:

Packages that are not contaminated can be recycled.

14. Transport informations/rules

Land transport ADR/RID

No hazardous material in terms of transport rules

Maritime transport IMDG/GGVSea

No hazardous material in terms of transport rules

Air transport ICAO-TI and IATA-DGR

No hazardous material in terms of transport rules

15. Regulatory Information

Labelling according to Regulation 1272/2008 (GHS/CLP)

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2.2 Label elements

Labelling according to Regulation 1272/2008 (GHS/CLP)



Warning

H315

causes skin irritation

P264

Wash...thoroughly after handling.

P280

Wear protective gloves/Protective clothing/eye protection/face protection.

P302+P352

IF ON SKIN: Wash with plenty of water/...

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Specific treatment (see...on this label)

P332+P313

If skin irritation occurs: get medical advice/attention

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H317	may cause an allergic skin reaction
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P272	Contaminated work clothing should not be allowed out of the workplace
P501	Dispose of contents/container to...
H319	causes serious eye irritation
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
H335	may cause respiratory irritation
P271	Use only outdoors or in a well-ventilated area.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/.../if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

16. Other information**Further applicable EG Guidelines:**

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

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

REACH-Guideline (EC) No. 1907/2006

Manufacturer's suggested application restriction:

Only for commercial use – no public product

R-Phrases on which is referred in chapter 2 and 3:

36/37/38 irritants the eyes, respiratory systems and skin

43 May cause sensitization by skin contact

Changes compared to the last version:

Assimilation according REACH-Regulation (EC) No. 1907/2006

Revision of the water hazard class

Department issuing MSDS:

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Additional Information:Origin: <http://www.baua.de><http://www.arbeitssicherheit.de>

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself.

The contents and format of this MSDS are in accordance with EEC Commission (EC) No. 1907 / 2006.

Disclaimer of Liability:

The information in this MSDS was obtained from sources which we believe are reliable.

However, the information is provided without any warranty, express or implied, regarding its correctness.

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