

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

Rev. 4  
Revision Date 16.08.2019 SW

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**1. Chemical Product and Company Identification**

**Product name:**

ANA Glass Liner

**Application of the product:**

Light curing lining material

**Manufacturer:**

dent a pharm Produktionsgesellschaft mbH

**Street:**

Schusterring 35

**Zip-Code / Town**

D-25355 Barmstedt

**Contact for technical Information**

+49 (0) 4123 9225 0

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**Emergency Information:**

Dr. Wolfgang Willmann

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**2. Hazard Identification**

**Classification of the substance or mixture**

**according to REACH Directive (EC) No. 1272/2008:**

**Label elements:**

**Labeling according to Regulation 1272/2008 (GHS/CLP)**

- Eye Irrit. 2            **H319** – Causes serious eye irritation
- STOT SE 3            **H335** – May cause respiratory irritation
- Skin Irrit. 2 **H315** – Causes skin irritation

**Additional hazard advices for human and environment:**

None



Warning

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

Rev. 4

Revision Date 16.08.2019 SW

|  |   |
|--|---|
| <p><b>H319</b><br/>P261</p> <p>P264<br/>P280</p> <p>P305+P351+P338</p> <p>P337+P313</p> <p><b>H335</b><br/>P271<br/>P304+P340</p> <p>P312<br/>P403+P233</p> <p>P405<br/><b>H315</b><br/>P302+P352</p> <p>P321<br/>P332+P313</p> <p>P362+P364</p> | <p><b>causes severe eye irritation</b><br/>avoid inhalation of dust/fumes/gas/mist/vapor/spray</p> <p>Clean well after handling<br/>Wear protective gloves/protective clothing/<br/>eye/face protection</p> <p>IN CASE OF CONTACT WITH THE EYES:<br/>Gently rinse out with water<br/>for several minutes. If possible, remove any contact<br/>lenses being worn and continue rinsing.</p> <p>If eye irritation persists:<br/>Seek medical attention/advice.</p> <p><b>May cause respiratory irritation.</b><br/>Use only outdoors or in a well-ventilated area.<br/>IF INHALED: Remove person to fresh air and keep<br/>comfortable for breathing.<br/>Call a POISON CENTER/doctor/.../if you feel unwell.<br/>Store in a well-ventilated place. Keep container tightly<br/>closed.<br/>Store locked up.</p> <p><b>Causes skin irritations</b><br/>IN THE EVENT OF CONTACT WITH THE SKIN:<br/>rinse off with plenty of water<br/>Special treatment (see ... on this identification label).<br/>In case of skin irritation: Seek medical<br/>attention/advice.<br/>Remove contaminated clothing and wash it before<br/>wearing it again.</p> |
|--|---|

**3. Composition/Information on Ingredients**

**Chemical characterization:**

**Hazardous ingredients:**

| Stoff  | Cas-Nr./EINECS-Nr./EG-Nr.                 | Gehalt (%) | Kennzeichnung  |
|--|---|------------|--|
| Glasionomer Cement                                   |   | 0-40 %     | H319- causes severe eye irritation<br>H335-may cause respiratory irritation<br>H315-causes skin irritation   |
| 1,6-Hexandioldimethacrylate                          | CAS-Nr. 6606-59-3<br>EINECS-Nr. 229-551-7 | 0-10 %     | H319- causes severe eye irritation<br>H335-may cause respiratory irritation<br>H315-causes skin irritation<br>H411-giftig f. Wasserorganismen, mit langfristiger Wirkung |
| Bisphenol-A-bis (hydroxypropylmethacrylate), Isomere | CAS-Nr. 1565-94-2                         | 0-15 %     | H319- causes severe eye irritation<br>H335-may cause respiratory irritation  |
| 4-tert.-Butyl-N,N-                                   | CAS-Nr. 2909-79-7                         | 0-0,10 %   | H302- harmful if   |

**Material Safety Data Sheet**  
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Rev. 4

Revision Date 16.08.2019 SW

|                 |                  |          |   |
|-----------------|------------------|----------|---|
| dimethylaniline | EG-Nr. 220-824-6 |          | swallowed.,<br>H312- harmful in contact with skin.<br>H332- harmful if inhaled.,<br>H319- causes severe eye irritation<br>H335 may cause respiratory irritation<br>H315- causes skin irritation |
| Camphorquinone  |                  | 0-0,10 % | H319- causes severe eye irritation<br>H335 may cause respiratory irritation<br>H315- causes skin irritation   |

**4. First-Aid-Measures**

**General Advices**

Take off with product contaminated clothes.

**After skin contact**

Wash off skin with soap and water.

Contact a physician if the skin is irritated.

**After eye contact**

Rinse eyes an efficient time.

Contact ophthalmologist if irritation is persisting.

**After inhalation**

Take person to fresh air.

In the event of symptoms refer for medical treatment.

**After swallowing**

Seek medical advice immediately.

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

Rev. 4  
Revision Date 16.08.2019 SW

---

**5. Fire-fighting-measures**

**Suitable extinguishing agents**

Foam, extinguishing powder, carbon dioxide, water spray.  
Adjust fire-fighting-measures to ambiance.

**For safety reasons unsuitable extinguishing media**

None known

**Particular danger through the product itself,  
its combustion products or gases**

None

**Protective equipment for fire-fighters**

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

**Further information**

None

**6. Accidental release measures**

**Personal precautions**

Arrange for fresh air.

**Environmental protection measures**

Do not drain into canalization.

**Methods for cleaning / absorption**

Take up mechanically.  
Apply to local services.

**7. Handling and storage**

**Handling**

The conventional precautions for works with chemicals are to be adhered.  
Wear overall while working.

**Hygiene measures**

Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke.  
Take off contaminated clothing immediately. Avoid contact with skin and eyes.

**Information about fire- and explosion protection**

None

**Storage conditions**

Store coll, dry, protected against light and tightly closed.  
Store in a well-ventilated place.  
Storage time: 3 years if storage conditions will be kept

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

Rev. 4

Revision Date 16.08.2019 SW

---

**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 must be attended.

Breathing protection: not necessary

Eye protection: Wear protection goggles

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-Technik, minimal-contact-techniques is recommended

Body protection: Wear business usual protection clothes.

Other protection measures: none

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

**9. Physical and Chemical Properties**

**Appearance**

Appearance: pasty material  
Colour: yellowish  
Odour/Flavour: acrylates / methacrylates

**Safety relevant data**

Flash point: not determined  
(approx. > 100°C appreciated by the flash point of the ingredients)  
PH-value: not determined  
Vapor pressure : not determined  
Density: not determined  
Solubility in water: insoluble

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

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---

**10. Stability and Reactivity**

**Conditions to avoid**

Protect from heat, sunlight and influence of light.  
Cures with exposure to UV light.

**Substances to avoid**

Free radicals, reducing agents, heavy-metal ions.

**Hazardous decomposition products**

In case of fire acrid acrylic fumes.

**Further information**

None

**11. Toxicological Information**

**Acute Toxicity**

|                        |            |
|------------------------|------------|
| At skin:               | irritation |
| At eyes:               | irritation |
| At respiratory system: | irritation |

**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 informations the product causes no hazardous effects.

**General information**

none

**12. Ecological Information**

**General information**

|                    |                |
|--------------------|----------------|
| Fish toxicity:     | not applicable |
| Water organism:    | not applicable |
| Bacteria toxicity: | not applicable |

**Persistence and degradability**

|              |                |
|--------------|----------------|
| Duration:    | not applicable |
| Test method: | not applicable |
| Evaluation:  | not applicable |

**Further detail to ecology**

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

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

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Revision Date 16.08.2019 SW

---

**Bioaccumulation potential**

No data available

**Effect of the determination of the PTB- and vPvB-Report**

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 organic wastes containing dangerous substances

**Package**

Packages that are not contaminated can be recycled.

**14. Transport information / Rules**

**Land transport ADR**

Class: Not a dangerous good according to the transport regulations.

UN-Number: -

Classification code: -

Description of the good: Light curing cavity liner

Packaging group: -

Hazard sheet: -

Symbol: -

**Rail transport RID**

Class: Not a dangerous good according to the transport regulations.

Classification code: -

UN-Number: -

Packaging group: -

Hazard sheet: -

Symbol: -

**Inland water transport ADN**

Class: Not a dangerous good according to the transport regulations.

Classification code: -

UN-Number: -

Packaging group: -

Hazard sheet: -

Symbol: -

**Material Safety Data Sheet**  
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Rev. 4

Revision Date 16.08.2019 SW

**Maritime transport IMDG**

Class: Not a dangerous good according to the transport regulations.  
EmS: -  
Classification code: -  
UN-Number: -  
Packaging group: -  
Hazard sheet: -  
Symbol:

**Air transport IATA**

Class: Not a dangerous good according to the transport regulations.  
Packaging-Instruction (cargo) -  
Packaging-Instruction (passenger) -  
UN-Number: -  
Packaging group: -  
Hazard sheet: -  
Symbol: -

**15. Regulatory Information**

**Classification of the substance or mixture**  
**according to REACH Directive (EC) No. 1272/2008:**

**Label elements:**

**Labeling according to Regulation 1272/2008 (GHS/CLP)**

- Eye Irrit. 2 **H319** – Causes serious eye irritation
- STOT SE 3 **H335** – May cause respiratory irritation
- Skin Irrit. 2 **H315** – Causes skin irritation

**Additional hazard advices for human and environment:**  
None



Warning

|         |      |                                  |
|---------|------|----------------------------------|
| Caution | H319 | Causes serious eye irritation    |
|         | H315 | Causes skin irritation           |
|         | H335 | May cause respiratory irritation |

**Hazard decisive components**

Contains: -

**Safety Assessments**

Safety Assessments for substances in this preparation were not executed



**Material Safety Data Sheet**  
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Rev. 4

Revision Date 16.08.2019 SW

---

**National Rules**

Water Hazard Class 2 (Estimation on the basis of the ingredients)

**16. Further Information**

**Further applicable EG Guidelines**

Guideline for preparation (1999/45/EC), at last changed by the guideline 2006/8/EC.

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

REACH-Guideline (EC) No. 1907/2006, at last changed by the REACH-Guideline 1272/2008.

**Manufacturer's suggested application restriction:**

For dental use only

**H-phrases on which is referred in chapter 2 and 3:**

**H319**

**H335**

**H315**

**Changes compared to the last version**

Change of GHS-Labeling

Change of Composition/Information on Ingredients

Change of Fire-fighting-measures

Change of Handling and storage

Change of Exposure Controls / Personal Protection

Change of Physical and Chemical Properties

Change of Toxicological Information

Change of Ecological Information

Change of Disposal Considerations

**Department issuing MSDS:**

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**Additional Information:**

Origin: <sup>1</sup> <http://www.baua.de>

<sup>2</sup> <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. 1272 / 2008.

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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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