

Material Safety Data Sheet
According to decree (EC) No. 1272 / 2008

Rev. 5

Revision Date 16.05.2019 SW

1. Chemical Product and Company Identification

Product name:

Glass Liner

Application of the product:

Light curing lining material

Manufacturer:

Willmann & Pein GmbH

Street:

Schusterring 35

Zip-Code / Town

D-25355 Barmstedt

Contact for technical Information

+49 (0) 4123 9228 0

Phone / Fax / E-Mail

+49 (0) 4123 9228 0 / +49 (0) 4123 9228 49 / info@wp-dental.de

Emergency Information:

Dr. Wolfgang Willmann

Phone: +49 (0) 170 – 405 30 52

2. Hazard Identification

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

2.2 Label elements

Labelling 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

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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/...

P321

Specific treatment (see...on this label)

P332+P313

If skin irritation occurs: get medical advice/attention

P362+P364

Take off contaminated clothing and wash it before reuse.

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:**

| Stoff | Cas-Nr./EINECS-Nr./EG-Nr. | Gehalt (%) | Kennzeichnung |
|--|---|------------|---------------------------------------|
| Glasionomer Cement | | 0-40 % | H319, H335, H315 |
| 1,6-Hexandioldimethacrylate | CAS-Nr. 6606-59-3 EINECS-Nr. 229-551-7 | 0-10 % | H319, H335, H315, H411 |
| Bisphenol-A-bis (hydroxypropylmethacrylat), Isomere | CAS-Nr. 1565-94-2 | 0-15 % | H319, H335 |
| 4-tert.-Butyl-N,N-dimethylaniline | CAS-Nr. 2909-79-7 EG-Nr. 220-824-6 | 0-0,10 % | H302, H312, H332, H319, H335, H315 |
| Camphorquinone, (+)-2,3-Dioxo-1,7,7-trimethyl- bicyclo-(2,2,1)-heptan di-Bornan- 2,3 dion | CAS-Nr.: 10373-78-1 EG-Nr.: 233-814-1 | 0-0,10 % | H319, H335, H315 |

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.

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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.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

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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

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

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11. Toxicological Information**Acute Toxicity**

At skin: irritation
At eyes: irritation
At respiratory system: irritation

Kinetic of the toxic reaction

According to 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.

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: Glass Liner
Packaging group: -
Hazard sheet: -
Symbol: -

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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: | - |

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**2.1 Classification of the substance or mixture****According to Regulation (EC) No. 1272/2008:****2.2 Label elements****Labelling according to Regulation 1272/2008 (GHS/CLP)**

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| P312 | Call a POISON CENTER/doctor/...if you feel unwell. |
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Additional hazard advices for human and environment

None

Hazard decisive components

Contains: -

Safety Assessments

Safety Assessments for substances in this preparation were not executed

National Rules

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

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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 No. 1272/2008.

Manufacturer's suggested application restriction:

For dental use only

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

H315

H319

H335

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:

Dr. Wolfgang Willmann (Phone: +49 (0) 41 23 – 9228 0)

Additional Information:

Origin: ¹ <http://www.baua.de>

² <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.

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.

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

For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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