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

Revision: 4

Revision Date 22.02.2017 SW

# 1. Chemical Product and Company Identification

## Product name:

C-Bond

#### Application of the product:

Connection between the dentin and composite

#### Manufacturer:

Willmann & Pein GmbH

#### 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 Information:**

Dr. Wolfgang Willmann +49 (0) 170 – 405 30 52

## 2. Hazard Identification:

## 2.1 Classification of the substance or mixture

# According to Regulation (EC) No. 1272/2008:

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

## 2.2 Label elements

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



H315	causes skin irritation	n
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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.

**H317** may cause an allergic skin reaction

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P272 Contaminated wirk clothing should not be allowed out of the workplace

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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 medica 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	Cas-No.	EINECS-No.	Percentage (%)
Ingredients			
1,6-Hexandioldimethacrylate	6606-59-3	229-551-7	0-30 %
Aliphatic urethane dimethacrylate			0-30 %
Bisphenol-A-bis	1565-94-2		0-40 %
(hydroxypropylmethacrylate)			
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 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 ambiance.

# 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:**

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Do not drain material into canalization.

## Methods for cleaning / absorption:

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

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 tob e 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 fort he 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 handeling with chemicals must be attended.

**Breathing protection:** If bigger quantities (at least 100 or 200 ml) were grouted:

Temporary industrial gas mast, filter A

Breathing protection for smaller quantities (10 ml or less):

Not nescessary

**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

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# 9. Physical and chemical Properties

Appearance:

Form: liquid

Appearance: viscose liquid

Colour: colourless (yellowlike)
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: unsoluble 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: Unter 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:

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

#### **Bioaccumulation potential:**

No data available

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

Edocrine 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)



no 10 Causes Skill Illitation	H315	causes skin	irritation
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#### 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 May cause sensitization by skin contact

### Changes compared to the last version:

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

Revision oft he water hazard class

# **Department issuing MSDS:**

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

#### **Additional Information:**

Origin: http://www.baua.de

http://www.arbeitssicherheit.de

Some of the information presendted and conclusions drawn herein are from sources other that direct testdata on the product itself.

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

## **Disclaimer of Liability:**

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