

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

Revision date:
00.doc

MSDS,GB, C-Bond, selfetching, 27.07.2010, rev

1. Chemical product and company identification

Product name:

C-Bond Self Etch

Application of the product:

lightcuring bonding

Manufacturer:

Willmann + Pein GmbH

Street:

Schusterring 35

Zip-Code/ Town

D-25355 Barmstedt

Contact for technical information

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Emergency information (24 hours):

Dr. Wolfgang Willmann

phone: +49 (0) 170 / 4053052

2. Hazard identification

Potential hazards:

Xi, irritant
R 36, 37, 38
R 43



F highly flammable
R 11 highly flammable

Additional hazard advices for human and environment:

Irritants the eyes, skin and respiratory system.

3. Composition/Information on ingredients

Chemical characterization:

Hazardous ingredients:

Substance	CAS-No.	Index-No.	EC-No.	Content (%)
Methacryle acid	79-42-4	607-088-00-5	201-204-4	0 – 1,0
4-(2-Methacryloyl-oxyethyl)-trimellith acid-anhydride	70293-55-9			0 – 1,5

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

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MSDS,GB, C-Bond, selfetching, 27.07.2010, rev

2-Hydroxyethyle-methacrylate	868-77-9	607-124-00-X	212-782-2	0 – 3,0
Ethanol 96 %	64-17-5	603-002-00-5	200-578-6	0 – 45
Isomere of BisphenolA-bis(hydroxypropylmethacrylate	1565-94-2			0 – 20
Triethylenglykoldimethacrylate	109-16-0		607-114-00-5	0 – 10
Aliphatic Urethandimethacrylate				0 – 20
10-Methacryloyl-oxydecyl-dihydrogenphosphate	85590-007			0 - 5

4. First-aid-measures

General advices:

Take off immediately with product contaminated cloth.

In case of skin contact:

Rinse with water and soap.

In case of eye contact:

Rinse with plenty of water while lids are opened. In case of prolonged irritations contact a physician.

In case of inhalation:

Bring the person to fresh air.

In case of swallow::

Consult physician.

5. Fire-fighting-measures

Suitable extinguish media:

Foam, Powder, Carbonic acid – Coordinate fire-fighting-measures to the environment.

Special hazards:

Flammable. Vapour is heavier than air. In case of fire formation of hazardous fire gases or vapour possible.

Special protective equipment while fire-fighting:

Typical measures for fire-fighting of chemical-fires, that means using a respiratory isolation unit.

6. Accidental release measures

Personal precautions:

Take care of adequate aeration

Environmental precautions:

Do not drain into canalisation.

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

Revision date:
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Method for cleaning up:

Clean up material with liquid bonding material, for example Chemizorb[®]. After lightcuring the product can be disposed (Material must be brought to a hazardous waste disposal under consideration of local authority hazardous waste regulations).

7. Handling and storage**Handling**

The usual precautionary measures are to be adhered when handling chemicals.

Wear business usual working-clothes during work.

Avoid skin contact by the use of instruments and **minimal-contact-techniques**. For precision manually workings gloves of polyethylene, for example Ethiparat[®]-gloves provides protection for approx. 5 - 10 minutes (due to experiences in the past / literature)

Wash hands before and after work, as well as before breaks.

Advices to fire- and explosion protection:

Keep away from sources of ignition.

Information to the storage conditions:

Storage temperature: cool, dry, closed and protected of light

Storage time: 3 years, if storage conditions will be observed.

8. Exposure controls / Personal protection**Limits for the exposition at the workstation and / or biological limits
workstation limits (AGW) Germany**

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

Personal protective equipment:

Observe Protection- and Hygiene measures. Separate storing of protection clothes.

The usual precautionary measures are to be adhered when handling chemicals.

Breathing protection:	not necessary
Eye protection:	Wear goggles when working with the material
Hand protection:	Sensibilisation: Wearing of suitable protection gloves (by experience in the past / literature) for example Ethiparat [®] -gloves for 5-10 minutes, Dedication of No-Touch-Technic, minimal-contact-techniques recommended.
Body protection:	Wear business-usual working-clothes.
Further protection measures:	none
Information to Working hygiene:	Adhere business-usual protection- and hygiene measures. Preventive skin protection. Wash hands and skin after work.

Material Safety Data Sheet
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Revision date:
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9. Physical and chemical properties**Appearance:**

Form: liquid
Colour: clear, light yellowish
Odour: low characteristic

Safety relevant data:

flashpoint: > 19°C
Solubility in water: (20°C) soluble
Relative density: (20°C) 0,9625 g/cm³
pH-value: 3,0

10. Stability and reactivity**Conditions to avoid**

Beware of heat, solar irradiation and exposure to light, to avoid polymerisation ahead of time.

Substances to avoid

Radical former (Product polymerises slowly at contact)

Hazardous decomposition products

None if used according to directions.

Further information

After considerable exceedance of the storage time and/ or the recommended storage temperature the product can slowly polymerise under low heat development.

11. Toxicological information

(estimated by means of ingredients)

Acute toxicity

At skin: irritant
At eye: irritant
inhalation: irritant

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.

Further details:

Allergic reactions on methacrylates are possible.

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

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12. Ecological information**General advices:**

Fish toxicity: not specified
Water organism: not specified
Bacteria toxicity: not specified

Further detail to ecology:

Do not drain into 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.

Disposal key according to AVV regulation

08 01 99 (Disposal a.n.g.)

Package

Packages that are not contaminated can be recycled.

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

Classification
Hazard class: 3 (flammable liquid substances)
UN-Number: 1993
Classification code: F
Description of the good: flammable liquid substance
Hazard cause: -
Package
Packaging group: II

Maritime transport IMDG/GGVSea

Classification
IMDG-Code: not specified
UN-Number: 1993
EmS: not specified
Marine Pollutant: not specified
Description of the goods: flammable liquid substance
Package
Packaging group: II

Air transport ICAO-TI and IATA-DGR

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Classification

Class: 3

UN-Number: 1993

Description of the good: flammable liquid substance

Packaging

Packaging group: II

15. Regulatory information**Labelling according EC-guideline**

Codeletter and hazard description of the product:

**Xi irritant**

R 36 irritant to eyes

R 37 irritant to respiratory system

R 38 irritant to skin

R 43 Sensibilization possible by skin contact

**F highly flammable**

R 11 highly flammable

Hazardous components requiring declaration: contains Ethanol**Safety assessments**

Safety Assessments for substances in this preparation were not executed

National rules

Water hazard class: 2 (water hazard) according VwVwS, Annex 4

16. Other information**Further applicable EC 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

Manufacturer's suggested application restriction:

For dental use only

Changes compared to the last version

Layout revised

Department issuing MSDS:

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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. 1907 / 2006.

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