

Material Safety Data Sheet
according to decree (EG) No. 1272 / 2008

Rev. 4
Revision Date: 26.11.19 SW

1. Chemical product and company identification

Product name:

Competence HC

Application of the Product:

- Fillings of the class III, IV and V in the frontteetharea, including V-formed defects
- Fillings of the class III, IV and V in the molar-area
- Reconstructions of traumatic damaged front teeth (anterior)
- Blinding of discoloured front teeth
- Colour and form corrections for the aesthetic restauration
- Core build-ups for crowns

Manufacturer:

Willmann & Pein GmbH

Street:

Schusterring 35

Zip-Code / Town

D-25355 Barmstedt

Contact for technical Information:

+49 (0) 41 23 – 922 80

Phone / Fax / E-Mail

+49 41 23 - 92280 / +49 4123 9228 48 / info@wp-dental.de

Emergency Information (24 hours)

Dr. Wolfgang Willmann

Phone: +49 (0) 170 – 405 30 52

2. Hazard Identification

Classification of the substance or mixture:

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

- Skin Irrit. 2
- Skin Sense 1
- Eye Dam. 1
- Eye Irrit. 2
- STOT SE 3

Material Safety Data Sheet according to decree (EG) No. 1272 / 2008

Rev. 4
Revision Date: 26.11.19 SW

Label elements

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

Signalword: Danger



H335	May cause respiratory irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction./ Skin Sense 1
H318	Causes serious eye damage. / Eye Dam. 1
H319	Causes serious eye irritation. / Eye Irrit. 2
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor/....
P312	Call a POISON CENTER/doctor/...if you feel unwell..
P321	Specific treatment (see ... on this label).
P302 + P352	IF ON SKIN: Wash with plenty of water/...
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to ...

Material Safety Data Sheet
according to decree (EG) No. 1272 / 2008

Rev. 4
Revision Date: 26.11.19 SW

Additional hazards information for human and environment:

-none

3. Composition/Information on Ingredients

Chemical characterization:

Mixture from different dimethacrylates, silicates, barium glass, pigments, catalyst and additives.

4. First-Aid-Measures

In case of inhalation:

After lengthy exposure move person to fresh air.

In case of skin contact:

Wash skin with soap and water.

In case of eye contact:

Rinse eyes with plenty of water while lid are open and consult a doctor.

In case of ingestion:

Immediately seek medical advice.

5. Fire-Fighting-Measures

Extinguishing media:

Water fog, extinguishing powder, sand, foam, carbon dioxide (CO₂)

Not suitable extinguishing media:

High power water jet.

Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases:

CO_x, NO_x

6. Accidental release measures

Personal Precautions:

Wear suitable protective clothing. Take care of adequate ventilation.

Environmental precautions:

Do not empty into drains or the aquatic environment.

Method for cleaning up:

Take up mechanically.

After lightcuring the product can be disposed normal.

7. Handling and storage

Safe handling advice:

Pay attention to the usual preventive measures in association with chemicals.

Material Safety Data Sheet
according to decree (EG) No. 1272 / 2008

Rev. 4

Revision Date: 26.11.19 SW

Storage

Store the material cool, dry, light protected and closed.

Store only closed in the original container.

The product will be delivered stabilized. But after essential exceedance of the shelf life (durable at least 3 years) and/or the storage temperature (do not store over 25°C) the product can polymerize under evolution of heat.

8. Exposure Controls/Personal Protection**General safety measures**

Avoid contact with eyes and with skin. Use this product only in well ventilated rooms.

Respiratory protection

Avoid inhalation.

Eye protection

Safety glasses.

Hand protection

Wear tested protective gloves.

Suitable material is NBR (Nitrile rubber)

Protective and hygiene measures

Do not eat or drink while working.

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.

9. Physical and chemical Properties**Appearance:**

Form: kneadable plastic mass, paste

Colour: according to colouring:
different colours of the teeth

Odour: esterlike

Safety relevant data:

pH-value: not applicable

Boiling Point: 250°C

Decomposition-temperature: > ca. 200°C.

Flash-point: 150°C

Rel. Vapour-Density: >1

Density: 1,880 g/cm³ at 20°C

Solubility in water: ca. 1g/l/20°C

Material Safety Data Sheet
according to decree (EG) No. 1272 / 2008

Rev. 4
Revision Date: 26.11.19 SW

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

To avoid early polymerisation, keep away from heat, solar radiation and exposure to light.

Decomposition will take place at temperatures of 200°C

Decomposition under forming of acrylate.

Substances to avoid:

Keep away from strong acids, leachates, heavy metal salts and reducing substances.

Hazardous decomposition products:

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

Additional information:

Light sensitive substance(s).

11. Toxicological information**Swallow:**

Acute toxicity: > 500 mg/kg species rat, LD₅₀

Irritation of Skin:

Dermal irritation are possible with frequently or prolonged contact.

May cause sensitization by skin contact.

Irritation of eyes:

Contains methacrylic esters.

Allergic reactions to methacrylates are possible.

Specific effects:

Allergic reactions to methacrylates are possible.

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 for us .

12. Ecological information**Persistence and degradability:**

Degradability: not appointed

Further information ecology:

Do not empty into earth, body of water or canalization.

Leakage into the environment must be prevented.

Bioakkumulation potential:

No data available

Material Safety Data Sheet
according to decree (EG) No. 1272 / 2008

Rev. 4
Revision Date: 26.11.19 SW

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

Endocrine disruption potential

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

13. Disposal considerations

Advice on disposal:

Can be burnt together with household waste in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Paste: Carry out a burning of hazardous waste according to official regulations.

Waste disposal number of waste from residues/unused products:

18 01 06 Wastes from human or animal health care and/or related research (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances. Classified as hazardous waste.

Packaging material:

Can be taken to recycling.

14. Transport informations/rules

Land transport (ADR/RID/GGVSE)

No hazardous material according to transportation regulations.

Maritime transport (IMDG-Code/GGVSea)

No hazardous material according to transportation regulations.

Air transport (ICAO-IATA/DGR)

No hazardous material according to the transportation regulations.

No dangerous cargo according to the transportation regulations.

Store separate from food and luxury food.

15. Rules

Classification of the substance or mixture:

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

- Skin Irrit. 2
- Skin Sense 1
- Eye Dam. 1
- Eye Irrit. 2
- STOT SE 3

Material Safety Data Sheet according to decree (EG) No. 1272 / 2008

Rev. 4
Revision Date: 26.11.19 SW

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

Kennzeichnungselemente

Signalword: Danger



H335	May cause respiratory irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction./ Skin Sense 1
H318	Causes serious eye damage. / Eye Dam. 1
H319	Causes serious eye irritation. / Eye Irrit. 2
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER/doctor/....
P312	Call a POISON CENTER/doctor/... if you feel unwell..
P321	Specific treatment (see ... on this label).
P302 + P352	IF ON SKIN: Wash with plenty of water/...
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to ...

Material Safety Data Sheet
according to decree (EG) No. 1272 / 2008

Rev. 4
Revision Date: 26.11.19 SW

National Rules:**Water Hazard Class (D):** 2 – water contaminationg**Safety Assessments:** Safety Assessments for substances in this preparation were not executed**16. Other 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), changed by the guideline 2006/121 EC.
REACH-Guideline (EC) No. 1907/2006, at last changed by the guideline 1272/2008 (EC)

Manufacturer's suggested application restriction:

For dental use only

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.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.