

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 27.07.2018

Version: 1

Printing date: 30.07.2018

1. Identification of the substance/mixture and of the company/undertaking

Product Identifier
Trade name: DentinBond Evo Part A
Use of the preparation: Dental product

Details of the supplier of the safety data sheet:
Manufacturer/supplier:

P.L. Superior Dental Materials GmbH,

22607 Hamburg

Germany

info@plsuperior.de

Emergency telephone number:

+49 4121 88113

2. Hazards identification

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

Skin Irrit. 2, H315 Causes skin irritation

Eye Irrit. 2, H319 Causes serious eye irritation

STOT SE 3, H335 May cause respiratory irritation

Skin Sens1, H317 May cause allergic skin reaction

Information concerning particular hazards for human and environment:

The product has to be labeled due to calculation procedure for the "General Classification guideline for preparations of the EU" in the latest version.

Label elements
Labeling according to Regulation (EC) 1272/2008:
Hazard pictograms

Signal word

Warning

Hazard statements

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H317 May cause allergic skin reaction

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

Labeling according to EU guidelines:

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body; are exempted from the provisions of Regulation (EC) No. 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

Other hazards
Results of PBT and vPvB assessment
PBT: not applicable

vPvB: not applicable

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 27.07.2018

Version: 1

Printing date: 30.07.2018

3. Composition/Information on Ingredients								
<p>Chemical characterization:</p> <p>Description: Modified dimethacrylates, methacrylates, nano-filler, phosphoric esters, catalysts and stabilizers</p> <p>Hazardous components:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">607-134-00-4 (Index No.)</td> <td style="width: 30%;">Methacrylates</td> <td style="width: 30%;">GHS07, H315, H319, H335, H317</td> <td style="width: 10%; text-align: right;"><50%</td> </tr> <tr> <td></td> <td>Phosphoric esters</td> <td>GHS05, H314</td> <td style="text-align: right;">>50%</td> </tr> </table>	607-134-00-4 (Index No.)	Methacrylates	GHS07, H315, H319, H335, H317	<50%		Phosphoric esters	GHS05, H314	>50%
607-134-00-4 (Index No.)	Methacrylates	GHS07, H315, H319, H335, H317	<50%					
	Phosphoric esters	GHS05, H314	>50%					
4. First-aid measures								
<p>General information: Seek medical advice, if symptoms occur, which can be caused by the product</p> <p>after skin contact: wash with plenty of water and soap</p> <p>after inhalation: fresh air</p> <p>after eye contact: Rinse opened eye for several minutes under running water and consult a doctor</p> <p>after swallowing: If symptoms persist consult a physician.</p>								
5. Fire fighting measures								
<p>Extinguishing media: CO₂, powder, water spray, foam. Use extinguishing method and media suitable to surrounding fire.</p> <p>Special hazards arising from the substance or mixture No further relevant information available</p> <p>Protective equipment Wear self-contained respiratory protective equipment</p>								
6. Accidental release measures								
<p>Personal precautions, protective equipment and emergency procedures: Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms</p> <p>Environmental precautions: Do not allow to enter drains/surface water/ ground-water.</p> <p>Methods for cleaning up: Absorb with liquid binding material. Clean up affected area.</p> <p>Reference to other sections: See Section 7 for information on safe handling See Section 8 for information on personal protection equipment See Section 13 for disposal information</p>								
7. Handling and storage								
<p>Handling: This product should only be supplied or handled to dentists or dental technicians or upon their instructions.</p> <p>Precautions for safe handling: Observe normal care for working with chemicals</p> <p>Information about fire and explosion protection: Keep away from heat and fire. Take measure to prevent electrostatic charge</p> <p>Storage: Store at a dry place. Store tightly closed. Storage temperature <25°C.</p> <p>Requirements at storerooms and containers: Store only in the original containers</p> <p>Further information on storage conditions: Store away from food stuffs.</p> <p>Specific end uses: No further relevant information available</p>								

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 27.07.2018

Version: 1

Printing date: 30.07.2018

8. Exposure controls/personal protection

Components with limits of values to be supervised at the workplace:

CAS-No.	name	art	value	unit
---------	------	-----	-------	------

The product contains no relevant quantities of components with limits of values to be supervised at the workplace.

Additional information: The lists valid during the making were used as basis

Personal protective equipment:

General protective and hygienic measures:

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

Keep away from foodstuffs and beverages. Avoid contact with eyes or skin

Hand protection

Protective gloves.

Due to missing tests no recommendation to the glove material can be given for the product.

Eye protection: safety glasses

Respiratory protection: Required, when aerosols are generated

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form:	liquid		
Color:	colorless		
Odor:	characteristic		
	<u>Value</u>	<u>Unit</u>	<u>Method</u>

Safety relevant basic data

Melting point/melting range:	n.a.
Boiling point/boiling range:	n.a.
Flash point:	n.a.
Ignition temperature:	No information available
Danger of explosion:	
Density:	1.20 g/cm ³
Vapor pressure:	n.d.
pH:	ca. 1.5
Solubility in/miscibility with:	
Water:	soluble
Content of solvents:	
Organic solvents:	none

10. Stability and reactivity

Thermal decomposition / conditions to be avoided

Possibility of hazardous reactions: no information available

Conditions to avoid: Avoid contact with amines, peroxi compounds, polymerisation initiators, acids, bases, oxidizing agents.

Hazardous decomposition products: No information available.

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 27.07.2018

Version: 1

Printing date: 30.07.2018

11. Toxicological information

Acute toxicity:LD₅₀ (oral, rat) 5050 mg/kg**Primary irritation:****skin:** irritant**eye:** irritant**Sensitization:** sensitization by skin contact possible**Additional toxicological information:**

Allergic reactions to methacrylates after long-term exposure are possible. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological information

General information: Avoid transfer into environment**Classification of water endangerment:** WGK=1 (slightly polluting substance).

13. Disposal considerations

Product:**Recommendation:**

Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations

14. Transport information

Land transport ADR/RID and GGVS/GGVE (Germany): no subject to transport regulations**Sea transport IMDG:** no subject to transport regulations**Air transport ICAO-TI and IATA-DGR:** no subject to transport regulations

15. Regulatory information

Classification according to EC-guidelines:

The product is a medical device according to EC-directive 93/42 EEC.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information:

Changes compared with the previous version:

Adaptation according to 1907/2006/EG, Article 31

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 27.07.2018
 Printing date: 30.07.2018

Version: 1

1. Identification of the substance/mixture and of the company/undertaking

Product Identifier
Trade name: DentinBond Evo Part B
Use of the preparation: Dental product

Details of the supplier of the safety data sheet:
Manufacturer/supplier:

 P.L. Superior Dental Materials GmbH,
 22607 Hamburg

Germany

info@plsuperior.de

Emergency telephone number:

+49 4121 88113

2. Hazards identification

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

Flam. Liq. 2, H225 Highly flammable liquid and vapour

Information concerning particular hazards for human and environment:

The product has to be labeled due to calculation procedure for the "General Classification guideline for preparations of the EU" in the latest version.

Label elements
Labeling according to Regulation (EC) 1272/2008:
Hazard pictograms

Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Labeling according to EU guidelines:

Medical devices as defined in Directive 93/42/EEC and which are invasive or used in direct physical contact with the human body; are exempted from the provisions of Regulation (EC) No. 1272/2008 (CLP/GHS) usually if they are in the finished state and intended for the final user.

Other hazards
Results of PBT and vPvB assessment
PBT: not applicable

vPvB: not applicable

3. Composition/Information on Ingredients

Chemical characterization:
Description:

Solution of methacrylates, catalysts and stabilizers in ethanol

Hazardous components:

64-17-5 (CAS-No.)	Ethanol	GHS02, H225	> 50%
-------------------	---------	-------------	-------

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 27.07.2018

Version: 1

Printing date: 30.07.2018

4. First-aid measures

General information: Seek medical advice, if symptoms occur, which can be caused by the product

after skin contact: wash with plenty of water and soap

after inhalation: fresh air

after eye contact: Rinse opened eye for several minutes under running water and consult a doctor

after swallowing: If symptoms persist consult a physician.

5. Fire fighting measures

Extinguishing media:

CO₂, powder, water spray, foam.

Use extinguishing method and media suitable to surrounding fire.

Special hazards arising from the substance or mixture No further relevant information available

Protective equipment Wear self-contained respiratory protective equipment

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms

Environmental precautions:

Do not allow to enter drains/surface water/ ground-water.

Methods for cleaning up:

Absorb with liquid binding material. Clean up affected area.

Reference to other sections:

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

7. Handling and storage

Handling:

This product should only be supplied or handled to dentists or dental technicians or upon their instructions.

Precautions for safe handling: Observe normal care for working with chemicals

Information about fire and explosion protection: Keep away from heat and fire. Take measure to prevent electrostatic charge

Storage: Store at a dry place. Store tightly closed. Storage temperature <25°C.

Requirements at storerooms and containers: Store only in the original containers

Further information on storage conditions:

Store away from food stuffs.

Specific end uses: No further relevant information available

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 27.07.2018

Version: 1

Printing date: 30.07.2018

8. Exposure controls/personal protection

Components with limits of values to be supervised at the workplace:

CAS-No.	name	art	value	unit
64-17-5	Ethanol	TRGS 900	500	ml/m ³ (ppm)
			or 960	mg/m ³

Additional information: The lists valid during the making were used as basis

Personal protective equipment:

General protective and hygienic measures:

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

Keep away from foodstuffs and beverages. Avoid contact with eyes or skin

Hand protection

Protective gloves.

Due to missing tests no recommendation to the glove material can be given for the product.

Eye protection: safety glasses

Respiratory protection: Required, when aerosols are generated

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form:	liquid						
Color:	colorless						
Odor:	characteristic						
	<table border="1"> <thead> <tr> <th>Value</th> <th>Unit</th> <th>Method</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Value	Unit	Method			
Value	Unit	Method					

Safety relevant basic data

Melting point/melting range:	n.d.
Boiling point/boiling range:	78 °C.
Flash point:	12 °C
Ignition temperature:	425 °C.
Danger of explosion:	Lower limit of explosion 3.5 % Kühn- Upper limit of explosion 15 % Birett
Density:	0.87 g/cm ³
Vapor pressure:	n.d.
pH:	ca. 5.5
Solubility in/miscibility with:	
Water:	soluble
Content of solvents:	
Organic solvents:	ethanol

10. Stability and reactivity

Thermal decomposition / conditions to be avoided

Possibility of hazardous reactions: no information available

Conditions to avoid: Avoid contact with alkali metals, hydrides, strong oxidizing agents, radical initiators.

Hazardous decomposition products: No information available.

Safety Data Sheet

according to 1907/2006/EC, Article 31

Date of issue: 27.07.2018

Version: 1

Printing date: 30.07.2018

11. Toxicological information**Acute toxicity: (ethanol)**LD₅₀ (oral, rat) 6200 mg/kg**Primary irritation:****skin:** degreasing effect**eye:** slight irritation**Sensitization:** no information available**Additional toxicological information:**

Allergic reactions after long-term exposure are possible. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. Ecological information**General information:** Avoid transfer into environment**Classification of water endangerment:** WGK=1 (slightly polluting substance).**13. Disposal considerations****Product:****Recommendation:**

Use proper landfill disposal or incineration in accordance with local, state and federal regulations.

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations**14. Transport information****Land transport ADR/RID and GGVS/GGVE (Germany):**

UN 1170 ETHANOL, 3, II

Sea transport IMDG:

UN 1170 ETHANOL, 3, II

EmS F-E S-D

Air transport ICAO-TI and IATA-DGR:

UN 1170 ETHANOL, 3, II

The transport regulations are cited according to international regulations and in the form applicable in Germany. Possible national deviations in other countries are not considered.

15. Regulatory information**Classification according to EC-guidelines:**

The product is a medical device according to EC-directive 93/42 EEC.

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information:**Changes compared with the previous version:**

Adaptation according to 1907/2006/EG, Article 31

The above information is based on our present day knowledge and relates solely to the safety requirements of the product. The data do not signify any warranty with regards to products properties. However users of the product should satisfy themselves that the information given is sufficient and correct for their specific circumstances of use.