

Material Safety Data Sheet according to (EC) 453/2010



Tradename:

DURASPLINT Polymer

Status: 17.06.2015

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SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Name of product: **DURASPLINT Polymer**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Orthodontic resin, self-curing acrylic, powder component of the 2-component acrylic system based on methyl methacrylate (powder and liquid), for the purpose of making individual orthodontic devices.

1.3. Details of the supplier of the safety data sheet

Manufacturer / distributor

SCHEU DENTAL GmbH

Am Burgberg 20

D-58642 Iserlohn

Tel. +49 (2374) 9288-0

Fax +49 (2374) 9288-90

eMail: service@SCHEU-DENTAL.com

Internet: www.SCHEU-DENTAL.com

1.4. Emergency telephone number: +49 (2374) 9288-0

SECTION 2 : Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No classified as dangerous for supply/use.

2.2. Label elements

2.3. Other hazards

Contains Methyl methacrylate, Dibenzoylperoxide. May produce an allergic reaction.

SECTION 3: Composition / information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

acrylic powder on base of methyl methacrylate and n-butylmethacrylate.

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Index No		
REACH-No		
	acrylic polymer	100 %

Additional information

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SECTION 4: First aid measures

4.1. Description of first aid measures

- After inhalation:** Provide fresh air. In case of complaints get medical treatment.
- After contact with skin:** Wash with soap and plenty of water. Consult a physician if irritation persists.
- After contact with eyes:** Flush eyes thoroughly with a large amount of water. Consult a physician.
- After ingestion:** Rinse mouth immediately and drink plenty of water. In case of complaints get medical treatment.

4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, dry chemical, carbon dioxide, water spray

Unsuitable extinguishing media for safety reasons

Full water jet

5.2. Special hazards arising from the substance or mixture

Non-flammable.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid generation of dusts. Do not breathe dust.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures are necessary.

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Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Advice on storage compatibility

For larger quantities take precautionary measures against electrostatic charging .
In case of fire, cool the endangered containers with water.

7.3. Specific end use(s) Do not allow to enter in soil.

For the purpose of making orthodontic devices.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

8.2. Exposure controls

Protective and hygiene measures

Do not inhale dust. Observe the professional standards of hygiene measures. Clean skin thoroughly after work.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Short term: filter appliance, filter P2

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye/face protection

Tightly fitting goggles.

Skin protection

Wear suitable protective clothing.

Limitation and supervision of exposure into the environment

No special precautions are necessary if used correctly.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Physical state	powder
Colour	white
Odour	weak odor
pH-Value:	not determined

Changes in the physical state

Melting point	ca. 110 °C
Initial boiling point and boiling range	not determined
Flash point	~ 390 °C
Flammability	

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Solid	not determined
Gas	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Ignition temperature	~ 465 °C
Auto-ignition temperature	
Solid	not determined
Gas	not applicable
Decomposition temperature	not determined
Vapour pressure	not applicable
Density	1.1 – 1,2 g/cm ³ at 20 °C
Bulk density	600 – 750 kg/m ³
Water solubility	insoluble
Solubility in other solvents	in esters, ketenes and chlorinated hydrocarbons readily soluble
Dynamic viscosity	not applicable

9.2. Other information

Solid content 100 %

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

None when used as directed. During thermal decomposition combustible, the eyes and respiratory system irritating vapours are formed, consisting mainly of methyl methacrylate, n-butyl methacrylate.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Primary irritant effect:

Based on available data, the classification criteria are not met.

Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

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Further information

The mixture is classified as not hazardous.

SECTION 12: Ecological Information

12.1. Toxicity

The product is not: Ecotoxic.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT an vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No further relevant information available.

Further information:

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal of contaminated packaging

Wash with plenty of water. Completely emptied packings can be recycled.

SECTION 14: Transport Information

Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	

Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	

Marine transport (IMDG)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	

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Air transport (ICAO)

14.1. UN number:	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packaging group:	

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

15.2. Chemical Safety Assessment

Chemical safety assessment for substances in this mixture were not carried out.

SECTION 16: Other Information**Abbreviations and acronyms**

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
LC50	Lethal concentration, 50 %
LD50	Lethal dose, 50 %

Further information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.