

SAFETY DATA SHEET (EC 1907/2006)

PMMA for brain disk
PMMA for brain ht disk
Multilayer PMMA
Shaded PMMA
Burnout PMMA

Version:	1.6 / GB	Material no.	D8081816
Revision date:	21.11.2017	Specification	168025
Issue date:	12.08.2009	VA-Nr	01780268
replaces version:	1.5		
Page:	1 / 9		



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

1.1. Product identifier

Trade name
PMMA for brain disk
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REACH Registration No.: if available listed in Chapter. 3

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

Relevant applications identified For dental use only.

1.3. Details of the supplier of the safety data sheet

Company
DeguDent GmbH
Postfach 1364
D-63403 Hanau

Telephone +49 (0)6181/59-5767
Telefax +49 (0)6181/59-5879
Email address SDB.Degudent-DE@dentsplysirona.com

1.4. Emergency telephone number

Emergency information +49 (0)6181/59-50 (This telephone number is available during office hours only.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Remarks Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Labelling as per (EU) 1272/2008

Remarks Labelling not required according to EU-CLP Ordinance (1272/2008).

Supplemental hazard / labelling elements (EU):

Contains methyl methacrylate, dibenzoyl peroxide
May produce an allergic reaction.

2.3. Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

SECTION 3: Composition/information on ingredients

Chemical nature

Crosslinked polymethylmethacrylate

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replaces version: **1.5**
Page: **2 / 9**



Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

• methyl methacrylate		< 1%	
CAS-No.	80-62-6	EC-No.	201-297-1
Flammable liquids		Category 2	H225
Skin corrosion/irritation		Category 2	H315
Skin Sensitisation		Category 1	H317
Specific Target Organ Toxicity - Single exposure (inhalation)		Category 3	H335
• dibenzoyl peroxide		< 1%	
CAS-No.	94-36-0	EC-No.	202-327-6
Organic peroxides		Type B	H241
Eye irritation		Category 2	H319
Skin Sensitisation		Category 1	H317

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Following inhalation of product dust: See that there is fresh air.
In case of discomfort: Supply with medical care.

Skin contact

Upon skin contact, wash with plenty of water and soap.
Consult a doctor in the event of permanent skin irritation.

Eye contact

Immediately flush eye(s) with plenty of water.
If eye irritation persists, consult a specialist.

Ingestion

In case of discomfort: Supply with medical care.

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

Symptoms

None known

Hazards

None known

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder.

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Do not inhale decomposition gases or noxious gases.

5.3. Advice for firefighters

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replaces version: **1.5**
Page: **3 / 9**



Wear suitable protective clothing.
Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid dust formation.
Wear personal protective equipment; see section 8.

6.2. Environmental precautions

When substantial quantities of the product are on hand, do not drain into in water courses, groundwater and sewage system .

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment.

6.4. Reference to other sections

Wear personal protective equipment; see section 8.
Disposal considerations; see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.
In case of dust: respiratory equipment and eye protection

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

No special measures are required.

Storage

No special measures are required.

German storage class

11 - Combustible Solids

7.3. Specific end use(s)

We are unaware of any specific end uses which go beyond the data reported in Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

• methyl methacrylate			
CAS-No.	80-62-6	EC-No.	201-297-1
Control parameters	100 ppm 416 mg/m ³		Short Term Exposure Limit (STEL):(EH40 WEL)
Control parameters	50 ppm 208 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)
• dibenzoyl peroxide			
CAS-No.	94-36-0	EC-No.	202-327-6
Control parameters	5 mg/m ³		Time Weighted Average (TWA):(EH40 WEL)

8.2. Exposure controls

SAFETY DATA SHEET (EC 1907/2006)

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replaces version:	1.5		
Page:	4 / 9		



Engineering measures

Ensure that there is suitable air extraction / ventilation in the workplace or at the working machines. If necessary extractor suction on specific objects.

Personal protective equipment

Respiratory protection

Do not inhale respirable dust Dust mask with P2 particle filter., If the occupational threshold limit is exceeded wear respiratory protective device equipped with particle filter P2.

Hand protection

Glove material Wear safety gloves made of the following materials: natural rubber, nitrite caoutchouc, PVC.

Eye/face protection

Wear goggles when dusts appear

Hygiene measures

General industrial hygiene practice., Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work.

Protective measures

Do not breathe dust., No eating, drinking, smoking, or snuffing tobacco at work.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Form	solid
Colour	depending on staining result

Odour	odourless
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Odour threshold:	not applicable
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pH	not applicable solid
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Melting point/range	no data available
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Boiling point/range	no data available
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Flash point	> 250 °C
Method:	ASTM D 1929-68

Evaporation rate	not applicable, solid
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Flammability (solid, gas)	no data available
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Lower explosion limit	not applicable
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Upper explosion limit	not applicable
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Vapour pressure	not applicable solid
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Density	ca. 1.19 g/cm ³	(20 °C)
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Issue date:	12.08.2009	VA-Nr	01780268
replaces version:	1.5		
Page:	5 / 9		



Water solubility	insoluble
Partition coefficient: n-octanol/water	no data available
Autoinflammability	Not capable of spontaneous combustion or heating.
Thermal decomposition	> 250 °C
Viscosity, dynamic	not applicable solid
Explosiveness	no data available
Oxidizing properties	not oxidizing

9.2. Other information

Ignition temperature	> 400 °C	Method:	Method: ASTM D 1929
Other information	No further physicochemical data were determined.		

SECTION 10: Stability and reactivity

10.1. Reactivity

no data available

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No special measures are required.

10.4. Conditions to avoid

No limitations

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

With thermal decomposition, flammable fumes arise which are irritating to the eyes and respiratory organs, predominantly consisting of:
methyl methacrylate, Methacrylate

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No results of animal experiments with the product available.

Acute oral toxicity no data available

Acute inhalation toxicity no data available

Acute dermal toxicity no data available

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replaces version:	1.5		
Page:	6 / 9		



Skin irritation	no data available
Eye irritation	no data available
Sensitization	Allergic reactions have been described in humans. The data listed above refer to the very low concentrations of the raw materials methyl methacrylate and dibenzoyl peroxide contained in the product.
Assessment of STOT single exposure	No data available
Assessment of STOT repeat exposure	No data available
Risk of aspiration toxicity	not applicable
Mutagenicity assessment	no data available
Carcinogenicity	No data available
Toxicity to reproduction	No data available
Further information	No hazardous reactions are known if properly handled and stored.

SECTION 12: Ecological information

12.1. Toxicity

No ecotoxicological data is available for this product.

12.2. Persistence and degradability

Biodegradability no data available

12.3. Bioaccumulative potential

Bioaccumulation no data available

12.4. Mobility in soil

Mobility No data available

12.5. Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

12.6. Other adverse effects

Further Information No data can be given because of insolubility in water. Do not allow to reach the sewage system, the ground or natural water bodies.

SECTION 13: Disposal considerations

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Issue date:	12.08.2009	VA-Nr	01780268
replaces version:	1.5		
Page:	7 / 9		



13.1. Waste treatment methods

Product

Disposal according to local authority regulations.

Uncleaned packaging

Disposal according to local authority regulations.

SECTION 14: Transport information

Not dangerous according to transport regulations.

14.1. UN number:	--
14.2. UN proper shipping name:	--
14.3. Transport hazard class(es):	--
14.4. Packing group:	--
14.5. Environmental hazards:	--
14.6. Special precautions for user:	No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

employment restriction

The employment limitations under the protection of young persons act, the laws on pregnant women and young mothers and work at home is/are to be observed.

15.2. Chemical safety assessment

Chemical safety assessment No Chemical Safety Report as per Articles 2(8), 2(9) or 14 of the REACH Regulation is required for this product.

SECTION 16: Other information

Relevant H phrases from chapter 3

H225	: Highly flammable liquid and vapour.
H241	: Heating may cause a fire or explosion.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H335	: May cause respiratory irritation.

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Issue date:	12.08.2009	VA-Nr	01780268
replaces version:	1.5		
Page:	8 / 9		



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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity

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Issue date:	12.08.2009	VA-Nr	01780268
replaces version:	1.5		
Page:	9 / 9		



SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization