

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

1.1. Product identifier

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SFBDI !S !O / if available listed in Chapter. 3

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

S ! ! For dental use only.

1.3. Details of the supplier of the safety data sheet

D DeguDent GmbH
Postfach 1364
D-63403 Hanau

U +49 (0)6181/59-5767
U ! +49 (0)6181/59-5879
F ! ! 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

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

• methyl methacrylate		< 1%		
DBT.O !	80-62-6	FD.O !	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%		
DBT.O !	94-36-0	FD.O !	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

T ! ! Water spray, foam, CO2, dry powder.

V ! ! 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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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			
DBT.O !	80-62-6	FD.O !	201-297-1
D ! !	100 ppm		Short Term Exposure Limit (STEL):(EH40 WEL)
	416 mg/m3		
D ! !	50 ppm		Time Weighted Average (TWA):(EH40 WEL)
	208 mg/m3		
• dibenzoyl peroxide			
DBT.O !	94-36-0	FD.O !	202-327-6
D ! !	5 mg/m3		Time Weighted Average (TWA):(EH40 WEL)

8.2. Exposure controls

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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

H ! 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

G ! solid
D ! depending on staining result

P ! odourless

P ! ! not applicable

I !! not applicable
solid

N ! no data available

C ! no data available

G ! ! > 250 °C
Method: ASTM D 1929-68

F ! ! not applicable, solid

G !) ! !! no data available

M ! ! ! not applicable

V ! ! ! not applicable

W ! ! not applicable
solid

E ! ca. 1.19 g/cm3 (20 °C)

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	!	!	insoluble
	!	!	no data available
B	!	!	Not capable of spontaneous combustion or heating.
U	!	!	> 250 °C
W	!	!	not applicable solid
F	!!		no data available
P	!	!	not oxidizing

9.2. Other information

	!	!	> 400 °C
			Method: Method: ASTM D 1929
P	!	!	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

! ! ! 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.

B	!	!	!	no data available
B	!	!	!	no data available
B	!	!	!	no data available

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T	!	!	no data available
F	!	!	no data available
T		!	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.
B		! !TUPU!	No data available
B		! !TUPU!	No data available
S	!!	!	not applicable
N		!	no data available
D		!	No data available
U	!!	!	No data available
G	!	!	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

C ! no data available

12.3. Bioaccumulative potential

C ! no data available

12.4. Mobility in soil

N ! 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

G ! ! 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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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

! !

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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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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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