Safety Data Sheet

according to Regulation (EC) No 1907/2006

Ionosit Baseliner

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

1.1. Product identifier

Ionosit Baseliner

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

Uses advised against

pregnant or breastfeeding people should not work with hazardous substances

1.3. Details of the supplier of the safety data sheet

Company name:	DMG Chemisch-Pharmazeutische Fabrik GmbH	
Street:	Elbgaustraße 248	
Place:	D-22547 Hamburg	
Telephone:	+49. (0) 40. 84006-0	Telefax: +49. (0) 40. 84006-222
e-mail:	info@dmg-dental.com	
Internet:	www.dmg-dental.com	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Hazard categories:
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitisation: Skin Sens. 1
Hazard Statements:
Causes serious eye damage.
May cause an allergic skin reaction.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:

Hazard statements

H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.

Precautionary statements

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 water.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

methacrylate resin

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
109-16-0	Tri-ethylenglycol-dimethacrylate (TEDMA)			9 - 11 %
	203-652-6		01-2119969287-21	
	Skin Sens. 1B; H317			
1565-94-2	Bis-GMA			8 - 10 %
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H315 H319 H317 H335			

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
109-16-0	203-652-6	Tri-ethylenglycol-dimethacrylate (TEDMA)	9 - 11 %
	inhalation: Data lacking (gases); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg		
1565-94-2		Bis-GMA	8 - 10 %
	oral: LD50 = 5000 mg/kg		

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

After contact with skin, wash immediately with: Water and soap.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion

Call a physician immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO2).

Unsuitable extinguishing media

High power water jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Wear suitable protective clothing. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

Advice on general occupational hygiene

When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Store only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
109-16-0	Tri-ethylenglycol-dimethacrylate (TEDMA)			
Worker DNEL, long-term		inhalation	systemic	48,5 mg/m³
Worker DNEL, long-term		dermal	systemic	13,9 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
109-16-0	Tri-ethylenglycol-dimethacrylate (TEDMA)	
Freshwater		0,164 mg/l
Marine water		0,0164 mg/l
Freshwater sediment		1,85 mg/kg
Marine sediment		0,185 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		0,274 mg/kg

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation of the storage area.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses.

Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

Respiratory protection

The following must be prevented: inhalation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Paste	
Colour:	yellow	
Odour:	like: ester	
Flash point:		> 150 °C
pH-Value (at 20 °C):		3.5
Water solubility: (at 20 °C)		30 g/L
Density:		1.3 g/cm³
Relative vapour density:		> 1
point of decomposition:		> 200 °C

SECTION 10: Stability and reactivity

10.4. Conditions to avoid

Light. heat.
Decompostion takes place from temperatures above: 200 °C
Decomposition under formation of: Acrylate.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

In case of fire may be liberated: Gas / vapours, irritant. (Acrylate., pungent)

Further information

Substances sensitive to light.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

LD50: Rat 2000 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
109-16-0	Tri-ethylenglycol-dimethacrylate (TEDMA)				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Mouse		
	inhalation	Data lacking			
1565-94-2	Bis-GMA				
	oral	LD50 5000 mg/kg	Rat	literature value	

Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal irritation.
Irritant effect on the eye:

Sensitising effects

May cause sensitization by skin contact.

Additional information on tests

Contains Methacrylic esters.: May produce an allergic reaction.

SECTION 12: Ecological information

12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
109-16-0	Tri-ethylenglycol-dimethacrylate (TEDMA)						
	Acute fish toxicity	LC50 mg/l	16,4	96 h	pisc, indet.	OECD 203	
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Algae toxicity	NOEC mg/l	18,6	3 d	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC	32 mg/l	21 d	daphnia magna		

12.2. Persistence and degradability

Preparation not tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
109-16-0	Tri-ethylenglycol-dimethacrylate (TEDMA)			
	Biodegradation	85 %	28	OECD 301B
	Biodegradable.			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
109-16-0	Tri-ethylenglycol-dimethacrylate (TEDMA)	<= 4

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

Do not allow to enter into surface water or drains. Leakage into the environment must be prevented.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

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 harzardous waste according to official regulations.

List of Wastes Code - residues/unused products

180106 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 hazardous substances; hazardous waste

SECTION 14: Transport information

Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Further Information

-

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)