

# SAFETY DATA SHEET

## according to EC- directive 91/155/EC



Product Trade Name: Dentine (Tooth) Powder

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Version 3

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier  
Product Name Dentine Tooth Powder  
Poly methyl methacrylate (PMMA) homo-polymer

CAS-No. 9011-14-7 (PMMA)  
EC No. None

Details of the supplier of the safety data sheet  
Supplier Metrodent Limited  
Lowergate Works, Lowergate  
Paddock, Huddersfield  
United Kingdom  
+44 1484 461616  
sales@metrodent.com

Emergency contacts  
Office Hours Metrodent Limited  
+44 1484 461616

Recommended intended purpose(s)  
Dental

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

In Accordance with Regulation EC 1272/2008

COMPONENT Poly Methyl Methacrylate  
CAS NO. 9011-14-7  
EC INDEX NO. -  
REACH NO. Exempt  
EINECS NO. -  
CONTENT >98%  
HAZARD -  
CATEGORY -  
STATEMENT -

### 3. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This substance is classified as non-hazardous according to GHS  
Regulation EC1272/2008

Label elements

In Accordance with Regulation EC 1272/2008

Signal word None  
GHS Pictogram None  
Hazard Statement None

Precautionary Statement

(Prevention) P281 Use personal protective equipment as required  
(Response) P312 Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

Disposal P501 Disposal of contents/containers in accordance with local regulations

Hazardous Components None

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#### 4. FIRST AID MEASURES

Description of first aid measures

General advice	No special measures required.
Inhalation	The product is not a respiratory irritant.
Skin contact	The product is not skin irritating.
Eye contact	Flush with plenty of water. Consult a doctor if irritation occurs.
Ingestion	Drink plenty of water. Induce vomiting and consult a doctor Self protection for First Aider No special measures required.
Most important symptoms and effects, both acute and delayed	None
Indication of any immediate medical attention and special treatment needed	None

#### 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

Water mist, extinguishing powder, carbon dioxide Unsuitable extinguishing media  
Do not use direct water stream

Special hazards arising from the substance or mixture

None

Advice for firefighters

Use water spray to cool unopened containers

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

No special measures required.

No dangerous materials are released.

Environmental procedures

No special measures required.

Methods and material for containment and cleaning up

Clean up mechanically.

Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.

#### 7. Handling and storage

Precautions for safe handling

Only adequately trained personnel should handle the product. Use hygienic measures for dental practise.

Conditions of safe storage, including any incompatibilities

Store in a cool, dry area.

Specific end use(s)

No

#### 8. Exposure controls/personal protection

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Control parameters	Substance contains no components or products of decomposition according to point 10, with limit values related to the place of work, which require monitoring. However, manufacturer recommends:
Poly Methyl Methacrylate	CAS No. 9011-14-7
WEL	10mg/m <sup>3</sup>
Exposure controls	
General protective measures	Usual precautionary measures should be employed when handling the material.
Personal Protective Equipment	
Hygiene measures	Use hygienic measures for dental practise.
Respiratory protection	If workplace exposure limit is exceeded (leakage, spillage), apply dust mask with P2 particle filter.
Hand protection	In practise, as the product is a preparation of several substances, resistance tests of glove materials cannot be conducted in advance and should be performed by the end user prior to application. A suitable glove type should be selected for each work environment. On the whole, for permanent contact in work areas, natural latex (NR) gloves are suitable.
Eye protection	Not required, but safety goggles are recommended.
Body protection	On handling larger quantities: light weight protective clothing.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

Form	Powder
Colour	According to product specification
Odour	None
Melting Temperature	n/a
Boiling Temperature	n/a
Flashpoint	n/a Ignition
Temperature	>400°C
Lower Explosion Limit	20g/m <sup>3</sup>
Upper Explosion Limit	not determined
Vapour Pressure	n/a
Relative Density	1.2g/cm <sup>3</sup> @ 20°C
Relative Vapour Density	n/a
Solubility in Water	not soluble
Solubility (Qualitative)	Soluble in organic solvents
pH value	n/a
Partition Co-efficient	n/a
Viscosity (Dynamic)	not determined
Other information	The product is not self-igniting or explosive, however formation of explosive powder/air mixtures is possible.

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### 10. Stability and reactivity

Reactivity	Avoid contact with other chemicals.
Chemical stability	Stable under normal temperature conditions and when used as directed. Decomposition can occur at elevated temperatures (>250°C), releasing potentially irritating vapours (methyl methacrylate).
Possibility of hazardous reactions	No hazardous reactions known when used as directed.
Conditions to avoid	The product is supplied in a stable form. Protect from humidity.
Incompatible materials	None known.
Hazardous decomposition products	Organic products of decomposition. No decomposition occurs when used as directed.

### 11. Toxicological information

Metabolism		
Acute Oral Toxicity	LD50 rat (PMMA)	> 10000mg/kg
Acute Inhalation Toxicity	not toxic	
Acute Dermal Toxicity	not toxic	
Caustic Burning/Skin Irritation	No irritant effect	
Serious Eye Damage/Irritation	No irritant effect	
Respiratory/Skin Sensitisation	None known	
Germ Cell Mutagenicity	Non mutagenic	
Carcinogenicity	Non carcinogenic	
Reprotoxicity/Teratogenicity	Not toxic	
General Information	Product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations. When used and handled according to specifications and GLP, no harmful effects are observed.	

### 12. Ecological information

Aquatic Environment	None, insoluble in water (inert polymer).
Persistence and degradability	
Persistence and Degradability	None
Biodegradability	Product is solid, chemically inert and non biodegradable. No negative effects are known.
Bioaccumulative potential	
Bioaccumulation	No evidence for hazardous properties
Mobility in soil	
Mobility	The substance not water soluble. No evidence for hazardous properties
Results of PBT and vPvB assessment	
Persistent, Bioaccumulative or Toxic	n/a
very Persistent, very Bioaccumulative	n/a
Other adverse effects	
General Information	

### 13. Disposal considerations

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### Waste treatment methods

Substance	Waste is non hazardous and can be disposed of in an incineration plant or approved landfill in accordance to local regulations.
Packaging	Can be re used or recycled after cleaning.
List of Waste, LOW	07 Wastes from organic chemicals, 07 02 Waste from the MFSU (manufacture, formulation, supply and use) of plastics, synthetic rubber and man made fibres, 07 02 13 Waste plastic, acrylate co polymers.

Always check the given waste code according to the actual conditions of manufacturing, formulation or use in your facility.

### 14. Transport information

UN number	
UN proper shipping name Land Transport ADR/GGVSEB	
Land Transport RID/GGVSEB	
Inland Waterway Transport ADNR/GGVSEB	
Shipment by Sea IMDG/GGVSee	Marine pollutant No
Air Transport ICAO/IATA	
Transport hazard class(es)	
Product not classified as hazardous for transport.	
Packing group	None
Environmental hazards	Refer to section 14.2, not applicable if unmentioned
Special precautions for user	Refer to section 14.2
Transport in bulk according to the IBC code	N/a

### 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture National Legislation	
Product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations.	
Chemical safety assessment	
Labelling in accordance with GefStoffV/EC	The product is not subject to identification regulations under EC Directives and The Ordinance on Hazardous Materials
Hazard symbols	None
H-statements from Section 3	None

### 16. Other information

The substance is supplied in a stabilised form. These data are based on our current knowledge and experience, however do not constitute a guarantee for any specific product feature.

The instructions given here are valid only for the substance as supplied, not for derivatives resulting from its use.

This datasheet has been re-written and replaces all previous versions. The information and all further technical advice is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the substances in terms of their safety and handling requirements. The instructions given here are valid only for the product as supplied, not for derivatives resulting from its use. It implies no liability or other legal responsibility on our part. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection of incoming goods.

END OF SAFETY DATA SHEET