

SAFETY DATA SHEET

according to EC- directive 1907/2006/EC



Product Trade Name: Metroform Powder

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Revision Date 11/06/2015

Version 3

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

Product Identifier

Product Name Metroform special tray powder
Based on Poly methyl methacrylate (PMMA) co-polymer and ter-polymer
CAS-No. 9011-14-7 (PMMA)
EC No. None

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

For use in dental applications.

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

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

This substance is classified as non-hazardous according to GHS Regulation EC1272/2008
Health - None

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 Dispose of contents/container in accordance with local regulation
Hazardous components for labelling - None
Other hazards - None

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

In Accordance with Regulation EC 1272/2008

Component	CAS No. EC Index No. REACH No. EINECS No.	Content	Hazard/category/statement
Poly Methyl Methacrylate	9011-14-7 Exempt 01-2119452498-28	>98%	None Skin Sens./1/H317

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

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.

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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)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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/m³

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 ³
Upper Explosion Limit	not determined
Vapour Pressure	n/a
Relative Density	1.2g/cm ³ @ 20°C
Relative Vapour	Density n/a
Solubility in Water	not soluble
Solubility (Qualitative)	Soluble in organic solvents

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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.

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

Information on toxicological effects

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

Ecotoxicity	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

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Mobility in soil	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

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

A chemical safety assessment has not been carried out by the supplier.

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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.