

Product Trade Name: ORTHOMET POWDER PAGE 1/6

Revision Date 19/05/21 Version 5

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

Product Identifier

Product Name ORTHOMET POWDER
Based on Poly Ethyl Methacrylate (PEMA) homo-polymer
CAS-No. 9003-42-3 (PEMA)

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@metreodent.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 Poly Ethyl Methacrylate

CAS No. 9003-42-3

EC Index No.

REACH No. Exempt

EINECS No. -

Content >99% Hazard/category/statement None

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

Nc

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

No

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

Only adequately trained personnel should handle the product. Use hygienic Precautions for safe handling

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.

Usual precautionary measures should be employed when handling the material.

However, manufacturer recommends:

Poly Methyl Methacrylate CAS No. 9003-42-3

10mg/m3

Exposure controls

General protective measures

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.

In practise, as the product is a preparation of several substances, resistance tests Hand protection

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.

Not required, but safety goggles are recommended. Eye protection

On handling larger quantities: light weight protective clothing. Body protection

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 >400°C Ignition Temperature Lower Explosion Limit 20a/m3

Upper Explosion Limit not determined

Vapour Pressure n/a

Relative Density 1.2g/cm3 @ 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

Information on toxicological effects

Metabolism

Acute Oral Toxicity LD₅o rat (PEMA) >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

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 advance effects

Other adverse effects
General Information -



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13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste is non-hazardous and can be disposed of in an incineration plant or approved landfill in accordance to local regulations. Substance

Can be re-used or recycled after cleaning. Packaging 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

Environmental hazards Refer to section 14.2, not applicable if unmentioned

Refer to section 14.2 Special precautions for user

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.