



Metrodent

EC - SAFETY DATA SHEET

DATE OF ISSUE: May 1998 REPLACES ISSUE OF: January 1990

TITLE: ORTHOMET ORTHODONTIC ACRYLIC POWDER

1. Identification of Substance and Company

Orthomet Orthodontic Acrylic Powder

1.1 Manufacturer: Metrodent Limited, Lowergate Works, Lowergate, Paddock, Huddersfield, HD3 4EP. Tel: 01484 461616, Fax: 01484 462700

2. Composition Information

Methylmethacrylate Polymer

Dangerous components/range of concentration/symbol/R-sets

3. Hazard Identification

For Humans: Principal hazard is caused by dust generation. If this occurs use equipment as specified in Section 8.

4. First Aid Measures

Exposure	Medical Attention Required
Ingestion: Drink large amounts of water	Yes
Skin Contact: Wash away with plenty of Water.	Yes
Eye Contact: Wash away with plenty of Water	Yes
Inhalation: This is an extremely unlikely source of exposure.	

5. Firefighting Measures

5.1 Suitable extinguishing media: No Restriction.

5.2 Special Exposure Hazards: The following vapours may arise during fires: Methacrylate Monomer Vapours, Carbon Monoxide.

6. Accidental Release Measures

Safety measures related to persons: When spillage occurs an approved dust respirator must be used. Cleaning Method: Pick up powder mechanically, wipe off with plenty of water. Collect in containers for disposal. Please refer to 8 and 13

7. Handling and Storage

7.1 Handling: Protective measures regarding the handling: Observe common safety precautions regarding the handling of chemicals.

Technical protective measures: Electrical fittings in the immediate area should be dustproof and earthed.

7.2 Storage: Special requirements: Store in a closed container in a cool dry place. Avoid spillages.

Suitable container material: Original container.

8. Limit of Exposure and Personal Protective Equipment

8.1 Personal protective equipment: Eye Protection: Use goggles if dust occurs. Hygiene: After work usual hand-cleaning with water and soap
Respiratory Protection: Not normally required. If dust generation occurs, use an approved dust respirator.

9. Physical and Chemical Properties

Physical Appearance, Form: Solid-fine beads Colour: White

Smell: None. Density (20°C): approx. 1.2g/cm³.

Solubility in Water: Insoluble at 20°C, Other data: Lower explosive limit 20g/m³. (This resembles a very dense fog).

10. Stability and Reactivity

10.1 Thermal Decomposition: Polymer will decompose at temperatures over c.240°C.

10.2 Hazardous Decomposition Products: Methyl Methacrylate Monomer vapours, Carbon Monoxide.

11. Toxicological Information

If used according to directions, toxicological effects are not known. Avoid breathing dusts.

12. Ecological Information

The product is insoluble in water. No environmental hazard known.

13. Recommendations Regarding Disposal

13.1 Disposal procedure for preparation: Dispose in accordance with local regulations.

13.2 Disposal procedure for packing material: The material can be disposed with household waste by observing regulations of local authorities.

Please note that national and regional regulations might be valid.

14. Transportation Information

Polymethyl Methacrylates do not fall under the transportation classification for dangerous substances.

15. Regulatory Information

15.1 Mark on the label: None

15.2 Restriction regarding use and transportation: May only be used in the dental laboratory.

15.3 Maximum values for exposure at the work area. MEL Total inhalable dust 10mg/m³ 8 hour TWA. Respirable dust 5mg/m³ 8 hour TWA Other national demands could be importance

16. Other Data

None

The above describes our product with reference to possible safety requirements in accordance with our present level of knowledge.

No claim is made for completeness and all applicable laws and regulations have to be considered.