

TITLE: ORTHOMET ORTHODONTIC LIQUID

1. Identification of Substance and Company

Orthomet Orthodontic Liquid

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

2. Composition Information

Methyl Methacrylate (CAS No. 80-62-6) inhibitor and added Catalyst.
Dangerous components/range of concentration/symbol/R-sets
Methyl Methacrylate/97-99%/F,Xi/R11-36/37/38-43

3. Hazard Identification

For Humans: Irritating to the skin and eyes. Prolonged and repeated skin contact can cause sensitisation. In high concentrations the vapour can cause respiratory tract irritation, dizziness, drowsiness and temporary confusion, ultimately leading to unconsciousness.

4. First Aid Measures

Exposure	Medical Attention Required
Ingestion: Do not induce vomiting.	Yes immediately
Skin Contact: Wash away with plenty of Water.	Yes
Eye Contact: Wash away with plenty of Water.	Yes
Inhalation: Remove to fresh air.	
Apply artificial respiration if necessary.	Yes

5. Firefighting Measures

Suitable extinguishing media: Dry powder, Carbon Dioxide, Foam.
Not to be used: Water

6. Accidental Release Measures

Safety measures related to persons: Wear rubber gloves when cleaning and goggles. If necessary a suitable organic vapour mask (eg 3 M Model 425) must be worn. Cleaning Method: Pick up spillage with absorbent material (eg sand or Fullers Earth.). Do not allow spillage to enter drains. Dispose of in accordance with local regulations.
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. Take precautions against static discharge. Technical protective measures: Avoid spilling the liquid. Electrical equipment should be spark and flameproof.

7.2 Storage: Special requirements: Store in a closed container away from heat in a well ventilated area.

Suitable container material: Glass and metal container.

8. Limit of Exposure and Personal Protective Equipment

8.1 Personal protective equipment

Eye protection: goggles.

Hand protection: use rubber gloves.

Respiratory protection: suitable organic vapour mask (eg 3M Model 425)

Hygiene: after use usual hand-cleaning with water and soap. Barrier creams should be used routinely by all personnel using solvent based products.

9. Physical and Chemical Properties

Physical Appearance, Form: Liquid, Colour: Clear or Tinted Red, Smell: typical, Vapour Pressure: 36.8mbar, Density(20oC): approx.0.95g/cm³, Flash Point: 13oC, Relative Vapour Density: 3.45 (Air=1) Boiling Point: 101oC, Ignition Temperature: 421oC Melting Point: - 50oC, Explosion Limits, Lower: 2.1%, Upper: 12.5%

10. Stability and Reactivity

Thermal Decomposition: Polymer will decompose at temperatures over c.240oC. Hazardous Decomposition Products: Methyl Methacrylate Monomer vapours Carbon Monoxide.

11. Toxicological Information

Methyl Methacrylate is irritating to the skin and eyes. Methyl Methacrylate vapour in high concentrations may cause respiratory irritation, dizziness, drowsiness and temporary confusion, ultimately leading to unconsciousness. Rat oral LD₅₀7000-9000 mg/kg.

12. Ecological Information**13. Recommendations Regarding Disposal**

13.1 Disposal procedure: The product and its container must be disposed of as hazardous waste.

Preferred disposal route is by controlled incineration at an approved site.

Please note that national or regional regulations might be valid.

14. Transportation Information

Imo: UN No.: 1247, ICAO/IATA: 3(ii), ADR: 339;3.3(b)

15. Regulatory Information

15.1 Mark on the label: F Highly Flammable, Xi (irritating)

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitisation by skin contact.

S9 Keep container in a well ventilated place.

S16 Keep away from sources of ignition - No Smoking

S29 Do not empty into drain

S33 Take precautionary measures against static discharges.

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 value for Methyl Methacrylate 100ppm. 410mg/m³ (8 hour TWA).

Other national demands could be of 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.