

E.C.Safety Data Sheet according with regulation (EC)
1907/2006 (REACH)

megadental GmbH
Seeweg 20
D-63654 Büdingen

mega SIN ORTHO / mega SIN ORTHO DE
Methylmethacrylate / Polymer (Powder)

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Trade name: **mega SIN ORTHO / mega SIN ORTHO DE**
(Polymer/Powder)

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

Orthodontic resin, self-curing acrylic, powder component of the 2-component acrylic system based on methyl methacrylate (powder and liquid), for the purpose of making individual orthodontic devices.

1.3 Details of the supplier of the safety data sheet:

Company name: megadental GmbH
Street: Seeweg 20
Place: D-63654 Büdingen
e-mail: info@megadental.de
Internet: www.megadental.de
Contact person: Murat Büyük
Telephone: +49 (0) 6042 9755 0
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is not classified as hazardous according to Directive 1999/45/EC.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements:

2.3 Other hazards:

Contains: Methyl methacrylate Organic peroxides. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization:

Mixture on base of acrylic powder and catalyzt.

Hazardous components:

EC-No. CAS-No. Index-No. REACH-No.	Chemical name Classification according to Directive 67/548/EEC Classification according to Regulation (EC) No. 1272/2008 (CLP)	Quantity
-- -- -- --	Acrylic polymer	100 %

Full text of R-, H- and EUH-phrases: see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures:

- After inhalation:** Provide fresh air.
- After contact with skin:** Wash with plenty of water. Take off contaminated clothing and wash it before reuse.
- After contact with eyes:** Rinse immediately carefully and thoroughly with eye-bath or water.
- After ingestion:** Rinse mouth immediately and drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed:

No information available.

4.3 Indication of any immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the substance or mixture:

Non-flammable.

5.3 Advice for firefighters:

In case of fire: Wear self-contained breathing apparatus.

Additional information:

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid generation of dust. Do not breathe dust.

6.2 Environmental precautions:

Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up:

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal

6.4 Reference to other sections:

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Advice on safe handling:

No special measures are necessary.

Advice on protection against fire and explosion:

No special fire protection measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels:

Keep container tightly closed.

Advice on storage compatibility:

No special measures are necessary.

7.3. Specific end use(s):

Dental prothesis

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.2 Exposure controls:

Protective and hygiene measures:

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection:

Wear eye/face protection.

Hand protection:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection:

Wear suitable protective clothing.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state: Powder
Colour: See packaging
Odour: characteristic

pH-Value: not determined

Changes in the physical state:

Melting point:
Initial boiling point and boiling range:
Flash point:

Test method

ca. 110 °C
not determined
> 250 °C

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Flammability

Solid: not determined
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: 400 °C

Auto-ignition temperature

Solid: not determined
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

Not oxidizing.

Vapour pressure: not determined
Density (at 20 °C): 1,16 g/cm³
Bulk density (at 20 °C): 700 - 750 kg/m³
Water solubility: insoluble

Solubility in other solvents:

Soluble in hydrocarbons.
Partition coefficient: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2 Other information:

Solid content: 100 %

SECTION 10: Stability and reactivity

- 10.1 Reactivity:** No hazardous reaction when handled and stored according to provisions.
- 10.2 Chemical stability:** The product is stable under storage at normal ambient temperatures.
- 10.3 Possibility of hazardous reactions:** No known hazardous reactions.
- 10.4 Conditions to avoid:** none
- 10.5 Incompatible materials:** No information available.
- 10.6 Hazardous decomposition products:** Exothermal decomposition with formation of: Methyl methacrylate

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Based on available data, the classification criteria are not met.

Irritation and corrosivity: Based on available data, the classification criteria are not met.

Sensitising effects: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure: Based on available data, the classification criteria are not met.

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Carcinogenic/mutagenic/toxic effects for reproduction:

Based on available data, the classification criteria are not met.

Aspiration hazard:

Based on available data, the classification criteria are not met.

Additional information on tests:

This mixture is classified as not hazardous according to 1999/45/EC.

SECTION 12: Ecological information

- 12.1. **Toxicity:** The product is not: Ecotoxic.
- 12.2. **Persistence and degradability:** The product has not been tested.
- 12.3. **Bioaccumulative potential:** The product has not been tested.
- 12.4. **Mobility in soil:** The product has not been tested.
- 12.5. **Results of PBT and vPvB assessment:** The product has not been tested.
- 12.6. **Other adverse effects:** No information available.
- Further information:** Avoid release to the environment.

SECTION 13: Ecological information

13.1 **Waste treatment methods:**

Advice on disposal:

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Contaminated packaging:

Wash with plenty of water. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID):

- 14.1. **UN-number:** The product is not subject to ADR/RID/ADN regulations.
- 14.2. **UN proper shipping name:**
- 14.3. **Transport hazard class (es):**
- 14.4. **Packing group:**

Inland waterways transport (ADN):

- 14.1. **UN-number:** The product is not subject to ADR/RID/ADN regulations.
- 14.2. **UN proper shipping name:**
- 14.3. **Transport hazard class (es):**
- 14.4. **Packing group:**

Marine transport (IMDG):

- 14.1. **UN-number:** The product is not subject to IMDG regulations.
- 14.2. **UN proper shipping name:**
- 14.3. **Transport hazard class (es):**
- 14.4. **Packing group:**

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Air transport (ICAO):

- 14.1. **UN-number:** The product is not subject to ICAO-TI / IATA regulations.
- 14.2. **UN proper shipping name:**
- 14.3. **Transport hazard class (es):**
- 14.4. **Packing group:**
- 14.5. **Environmental hazards:**
ENVIRONMENTALLY HAZARDOUS: no
- 14.6. **Special precautions for user:**
No information available.
- 14.7. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**
not applicable

SECTION 15: Regulatory information

15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing.

Water contaminating class (D): 1 - slightly water contaminating

15.2. **Chemical safety assessment:**

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

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Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

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