

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

megadental GmbH
Seeweg 20
D-63654 Büdingen

mega Opak LC – Opaker Powder
(Light curing opaque powder)

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

1.1 Product identifier:

Trade name: **mega Opak LC – Opaker Powder**

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

Light-curing opaquer / bonder for non precious metal alloys and denture base Resin (liquid component).

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
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Hazard statements

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

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P285 In case of inadequate ventilation wear respiratory protection.
P280 Wear protective gloves/protective clothing/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P501 Dispose of contents/container in accordance with local regulation.

Precautionary statements

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

H241 Heating may cause a fire or explosion.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361 Suspected of damaging fertility or the unborn child.
H372 Causes damage to organs (lung) through prolonged or repeated exposure if inhaled.
H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements:

Hazardous components which must be listed on the label

cristobalite
dicyclohexyl phthalate
dibenzoyl peroxide

Signal word: Danger
Pictograms: GHS07-GHS08



2.3 Other hazards: No information available.

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SECTION 3: Composition/information on ingredients

3.2. Chemical characterization:
No information available.

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 |
|---|---|-----------|
| 14464-46-1 | crystalite Xn - Harmful R48/20 STOT RE 1; H372 | > 80 % |
| 202-327-6 94-36-0 617-008-00-0 | dibenzoyl peroxide E - Explosive, O - Oxidizing, Xi - Irritant R3-7-36-43 Org. Perox. B, Eye Irrit. 2, Skin Sens. 1; H241 H319 H317 | 1 - < 5 % |
| -- 84-61-7 | dicyclohexyl phthalate Repr. Cat. 3 R62-43-53 Repr. 2, Skin Sens. 1, Aquatic Chronic 3; H361 H317 H412 | 1 - < 5 % |

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

SECTION 4: First aid measures

4.1 Description of first aid measures:

- General information:** When in doubt or if symptoms are observed, get medical advice.
- After inhalation:** Remove casualty to fresh air and keep warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
- After contact with skin:** Immediately remove any contaminated clothing, shoes or stockings.
After contact with skin, wash immediately with plenty of water and soap.
- After contact with eyes:** In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.
- After ingestion:** If swallowed, rinse mouth with water (only if the person is conscious).
Call a physician immediately. Do NOT induce vomiting.

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:

Alcohol resistant foam, Carbon dioxide (CO₂)-Extinguishing blanket, Water mist.

Suitable extinguishing media:

Full water jet.

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5.2 Special hazards arising from the substance or mixture:

Hazardous decomposition products. Danger of serious damage to health by prolonged exposure.
Use appropriate respiratory protection..

5.3 Advice for firefighters:

Use water spray jet to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information:

Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Measures to prevent aerosol and dust generation. Keep away from sources of ignition. - No smoking. Ventilate affected area. 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:

Do not use a dry brush as dust clouds or static can be created. Keep wetted with water.
Collect in closed and suitable containers for disposal. 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

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Advice on safe handling:

Avoid generation of dust. Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray.
When using do not eat, drink or smoke. Personal protection equipment: see section 8.
Keep only in original container. Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion:

Keep away from sources of ignition. - No smoking. Ventilate affected area.
Avoid generation of dust.

7.2 Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels:

Protect from the action of light. Keep only in the original container at a temperature between 4 -25 °C.
Keep container tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s):

Dental prothesis

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|------------------------|-----|-------------------|-----------|---------------|--------|
| 94-36-0 | Dibenzoyl peroxide | - | 5 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |
| 84-61-7 | Dicyclohexyl phthalate | - | 5 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |

8.2 Exposure controls:

Appropriate engineering controls If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Protective and hygiene measures: Do not breathe dust..

Eye/face protection: Wear tightly fitting goggles

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: Respiratory protection necessary at: IF exposed: long-term Use appropriate respiratory protection. (FP2-FP3).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state: Powder
Colour: various, depending on coloration
Odour: odourless

Changes in the physical state:

pH-Value: not determined

Test method

Changes in the physical state

Flash point: > 55 °C
Density: ca. 2,35 g/cm³
Solubility in water: insoluble
Solubility/other: not determined
Partition coefficient (log pOW): not determined
Additional information: Physical dates refer to main elements.

9.2 Other information:

No information available.

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SECTION 10: Stability and reactivity

- 10.1 Reactivity:** No information available.
- 10.2 Chemical stability:** The product is stable under storage at normal ambient temperatures.
- 10.3 Possibility of hazardous reactions:** Reducing agent., Heavy metalsAlkali (lye), concentrated, acids.
- 10.4 Conditions to avoid:** In case of warming: Formation of: Hazardous decomposition products.
- 10.5 Incompatible materials:** Reducing agent., Heavy metalsAlkali (lye), concentrated, acids.
- 10.6 Hazardous decomposition products:** Carbon dioxide (CO₂), Carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

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

| CAS No | Chemical name | Method | Dose | Species | Source |
|---------|------------------------|--------|-------------|---------|----------|
| 94-36-0 | dibenzoyl peroxide | LD50 | >5000 mg/kg | Rat | OECD 401 |
| | oral | | | | |
| 84-61-7 | dicyclohexyl phthalate | LD50 | >1000 mg/kg | Rat | OECD 401 |
| | oral | | | | |

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

Sensitising effects: May cause an allergic skin reaction. (dibenzoyl peroxide), (dicyclohexyl phthalate)

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

Severe effects after repeated or prolonged exposure: Causes damage to organs (lung) through prolonged or repeated exposure if inhaled. (cristobalite).

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 hazardous according to regulation (EC) No. 1272/2008 [CLP].

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SECTION 12: Ecological information

- 12.1. Toxicity:** There are no data available on the mixture itself.
Do not allow to enter into surface water or drains.
- 12.2. Persistence and degradability:** No information available.
- 12.3. Bioaccumulative potential:** No information available.
- 12.4. Mobility in soil:** No information available.
- 12.5. Results of PBT and vPvB assessment:** This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.
- 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:

Completely emptied packages can be recycled. Dispose according to legislation.

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:**

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:**

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- 14.5. **Environmental hazards:** No data available.
- 14.6. **Special precautions for user:** No data available.
- 14.7. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**
not relevant

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%

Relevant P-phrases (Number and full text)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P285 In case of inadequate ventilation wear respiratory protection.
P280 Wear protective gloves/protective clothing/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water.
P501 Dispose of contents/container in accordance with local regulation.

Relevant H- and EUH-phrases (Number and full text)

H241 Heating may cause a fire or explosion.
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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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