

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Promolux Polymer / Promolux HI Polymer

Revision date: 12.06.2020

Product code: D251\_C34

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

#### 1.1. Product identifier

Promolux Polymer / Promolux HI Polymer

##### Further trade names

Promolux Polymer div. / Promolux Polymer HI div.

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

##### Use of the substance/mixture

Polymer preparations and compounds : transparent / pink  
The product is intended for professional use.

##### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

|                         |  |                                |
|-------------------------|--|--------------------------------|
| Company name:           | Merz Dental GmbH                       |                                |
| Street:                 | Kieferweg 1                            |                                |
| Place:                  | D-24321 Lütjenburg (GERMANY)           |                                |
| Telephone:              | +49-(0)4381-403-0                      | Telefax: +49-(0)4381-403-100   |
| e-mail:                 | info@merz-dental.de                    |                                |
| Contact person:         | Dipl. Chem Dr. Thomas Panther          | Telephone: +49-(0)4381-403-448 |
| e-mail:                 | Thomas.Panther@merz-dental.de          |                                |
| Internet:               | www.merz-dental.de                     |                                |
| Responsible Department: | Qualitätssicherung (Quality Assurance) |                                |

#### 1.4. Emergency telephone number:

+49-(0)551-19240 (Gifftinformationszentrum-Nord)

### SECTION 2: Hazards identification

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

##### Special labelling of certain mixtures

EUH208 Contains methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate  
+ dibenzoyl peroxide; benzoyl peroxide. May produce an allergic reaction.

##### Additional advice on labelling

No label required according to 1999/45/EC, annex V B, No. 9.

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

POLYMETHYL METHACRYLATE

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#### Hazardous components

| CAS No  | Chemical name   |              |          | Quantity    |
|---------|---|--------------|----------|-------------|
|         | EC No   | Index No     | REACH No |             |
|         | Classification according to Regulation (EC) No. 1272/2008 [CLP] |              |          |             |
| 94-36-0 | dibenzoyl peroxide; benzoyl peroxide                            |              |          | 0.1 - < 1 % |
|         | 202-327-6   | 617-008-00-0 |          |             |
|         | Org. Perox. B, Eye Irrit. 2, Skin Sens. 1; H241 H319 H317       |              |          |             |

Full text of H and EUH statements: see section 16.

#### Further Information

none

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Change contaminated clothing.

##### After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

##### 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. In case of eye irritation consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. In all cases of doubt, or when symptoms persist, seek medical advice.

#### 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

When in doubt or if symptoms are observed, get medical advice.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray jet, Foam.

##### Unsuitable extinguishing media

High power water jet

#### 5.2. Special hazards arising from the substance or mixture

This material is combustible, but will not ignite readily. In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

#### 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 dust formation. Do not breathe dust. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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Wear personal protection equipment. Special danger of slipping by leaking/spilling product.

#### **6.2. Environmental precautions**

Clean contaminated articles and floor according to the environmental legislation. 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

## SECTION 7: Handling and storage

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Measures to prevent aerosol and dust generation.

#### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

#### **Further information on handling**

Dust should be exhausted directly at the point of origin.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

#### **Advice on storage compatibility**

To follow: Storage class

#### **Further information on storage conditions**

Keep cool. Protect from sunlight. storage temperature: < 40 °C

### **7.3. Specific end use(s)**

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

#### **Exposure limits (EH40)**

| CAS No  | Substance          | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|--------------------|-----|-------------------|-----------|---------------|--------|
| 94-36-0 | Dibenzoyl peroxide | -   | 5                 |           | TWA (8 h)     | WEL    |
|         |                    | -   | -                 |           | STEL (15 min) | WEL    |

#### **DNEL/DMEL values**

| CAS No                   | Substance                            | Exposure route | Effect   | Value                   |
|--------------------------|--------------------------------------|----------------|----------|-------------------------|
| 94-36-0                  | dibenzoyl peroxide; benzoyl peroxide |                |          |                         |
| Consumer DNEL, long-term |                                      | inhalation     | systemic | 2,9 mg/m <sup>3</sup>   |
| Worker DNEL, long-term   |                                      | dermal         | systemic | 6,6 mg/kg bw/day        |
| Consumer DNEL, long-term |                                      | oral           | systemic | 1,65 mg/kg bw/day       |
| Worker DNEL, long-term   |                                      | inhalation     | systemic | 11,75 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |                                      | dermal         | systemic | 3,3 mg/kg bw/day        |

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#### PNEC values

| CAS No   | Substance                            |                |
|--|--------------------------------------|----------------|
| Environmental compartment                        |                                      | Value          |
| 94-36-0  | dibenzoyl peroxide; benzoyl peroxide |                |
| Freshwater                                       |                                      | 0,000602 mg/l  |
| Marine water                                     |                                      | 0,0000602 mg/l |
| Freshwater sediment                              |                                      | 0,338 mg/kg    |
| Micro-organisms in sewage treatment plants (STP) |                                      | 0,35 mg/l      |
| Soil   |                                      | 0,0758 mg/kg   |

#### Additional advice on limit values

Monitoring and observation processes: "NIOSH Manual of Analytical Methods", National Institute for Occupational Safety and Health

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations. Use an "other exhaust ventilation system" according to 2001/59/EC (Annex 7A).. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

##### 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. Recommendation: Suitable material: PE (polyethylene).

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Respiratory protection necessary at: exceeding exposure limit values. Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

Quarter-face mask (DIN EN 140) / Half-face mask (DIN EN 140). Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

##### Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |           |
|-----------------|-----------|
| Physical state: | Powder    |
| Colour:         | pink      |
| Odour:          | odourless |

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### Test method

|   |                               |
|---|-------------------------------|
| pH-Value:   | not applicable                |
| <b>Changes in the physical state</b>                                      |                               |
| Melting point:  | not determined                |
| Initial boiling point and boiling range:                                  | not applicable                |
| Sublimation point:  | not applicable                |
| Softening point:  | ca. 110 °C                    |
| Pour point:   | not applicable                |
| Flash point:  | > 250 °C ASTM D 1929          |
| <b>Flammability</b>   |                               |
| Solid:  | not determined                |
| Gas:  | not applicable                |
| <b>Explosive properties</b>   |                               |
| Danger of dust explosion.   |                               |
| Lower explosion limits:   | not determined not determined |
| Upper explosion limits:   | not determined not determined |
| Ignition temperature:   | > 400 °C ASTM D 1929          |
| <b>Auto-ignition temperature</b>  |                               |
| Solid:  | not determined                |
| Gas:  | not applicable                |
| Decomposition temperature:  | not determined                |
| <b>Oxidizing properties</b>   |                               |
| This material is combustible, but will not ignite readily. Not oxidizing. |                               |
| Vapour pressure:  | not applicable                |
| Density (at 20 °C):   | 1,16 g/cm <sup>3</sup>        |
| Bulk density (at 20 °C):  | 700-750 kg/m <sup>3</sup>     |
| Water solubility:   | insoluble                     |
| <b>Solubility in other solvents</b>                                       |                               |
| not determined  |                               |
| Partition coefficient:  | not determined                |
| Viscosity / dynamic:  | not applicable                |
| Viscosity / kinematic:  | not applicable                |
| Flow time:  | not applicable                |
| Vapour density:   | not applicable                |
| Evaporation rate:   | not applicable                |
| Solvent separation test:  | not applicable                |
| Solvent content:  | not applicable                |

### 9.2. Other information

|                |       |
|----------------|-------|
| Solid content: | 100 % |
| none           |       |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

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#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.  
Decomposition temperature (°C): > 250

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Decomposition takes place from temperatures above: 250 °C

#### 10.5. Incompatible materials

Oxidising agent

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.  
Hazardous decomposition products: SECTION 8: Exposure controls/personal protection

#### **Further information**

none

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### **Toxicokinetics, metabolism and distribution**

No information available.

##### **Acute toxicity**

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

| CAS No  | Chemical name                        |                      |         |                  |          |
|---------|--------------------------------------|----------------------|---------|------------------|----------|
|         | Exposure route                       | Dose                 | Species | Source           | Method   |
| 94-36-0 | dibenzoyl peroxide; benzoyl peroxide |                      |         |                  |          |
|         | oral                                 | LD50<br>mg/kg > 2000 | Mouse   | Nier, Korea 2001 | OECD 401 |
|         | inhalative aerosol                   | LC50<br>mg/l > 24300 | Rat     |                  |          |

##### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.  
slightly irritant but not relevant for classification. Irritating to eyes.

##### **Sensitising effects**

Based on available data, the classification criteria are not met.  
In case of skin contact: sensitising

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.  
No information available.

##### **STOT-single exposure**

Based on available data, the classification criteria are not met.  
There are no data available on the preparation/mixture itself.

##### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.  
There are no data available on the preparation/mixture itself.

##### **Aspiration hazard**

Based on available data, the classification criteria are not met.  
There are no data available on the preparation/mixture itself.

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### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

### Additional information on tests

none

### Practical experience

### Observations relevant to classification

No information available.

### Other observations

No information available.

### Further information

The ingredients in this preparation do not meet the criteria for classification as CMR category 1 or 2 according to 67/548/EEC. The ingredients in this mixture do not meet the criteria for classification as CMR category 1 A or 1B according to CLP. Toxicological data are not available. People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

## SECTION 12: Ecological information

### 12.1. Toxicity

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

| CAS No  | Chemical name                        |                         |           |                                 |                   |               |
|---------|--------------------------------------|-------------------------|-----------|---------------------------------|-------------------|---------------|
|         | Aquatic toxicity                     | Dose                    | [h]   [d] | Species                         | Source            | Method        |
| 94-36-0 | dibenzoyl peroxide; benzoyl peroxide |                         |           |                                 |                   |               |
|         | Acute fish toxicity                  | LC50 0,24 mg/l          | 96 h      | Oryzias latipes (Ricefish)      | Nier, Korea 2002c | OECD 203      |
|         | Acute algae toxicity                 | ErC50 0,44 mg/l         | 72 h      | Selenastrum capricornutum       | Nier, Korea 2002f | OECD 201      |
|         | Acute crustacea toxicity             | EC50 0,07 mg/l          | 48 h      | Daphnia pulex (water flea)      | Nier, Korea 2002g | OECD 202      |
|         | Algae toxicity                       | NOEC 0,02 mg/l          | 3 d       | Pseudokirchneriella subcapitata | REACH Dossier     | EU Method C.3 |
|         | Crustacea toxicity                   | NOEC 0,001 mg/l         | 21 d      | Daphnia pulex (water flea)      | REACH Dossier     | OECD 211      |
|         | Acute bacteria toxicity              | 0,30 g O2/g (0,35 mg/l) | 0,5 h     | activated sludge                | REACH Dossier     | OECD 209      |

### 12.2. Persistence and degradability

The product has not been tested.

| CAS No  | Chemical name                                       |       |    |               |
|---------|---|-------|----|---------------|
|         | Method  | Value | d  | Source        |
|         | Evaluation  |       |    |               |
| 94-36-0 | dibenzoyl peroxide; benzoyl peroxide                |       |    |               |
|         | OECD 301D/ EEC 92/69/V, C.4-E                       | 71 %  | 28 | REACH Dossier |
|         | Readily biodegradable (according to OECD criteria). |       |    |               |

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No  | Chemical name                        | Log Pow |
|---------|--------------------------------------|---------|
| 94-36-0 | dibenzoyl peroxide; benzoyl peroxide | 3,2     |

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### BCF

| CAS No  | Chemical name                        | BCF  | Species | Source             |
|---------|--------------------------------------|------|---------|--------------------|
| 94-36-0 | dibenzoyl peroxide; benzoyl peroxide | 47,4 | n/n     | EpiSuite QSAR tool |

### 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

Very toxic to aquatic organisms.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

#### Waste disposal number of waste from residues/unused products

180107 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals other than those mentioned in 18 01 06

#### Waste disposal number of used product

180107 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals other than those mentioned in 18 01 06

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

### Inland waterways transport (ADN)

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

### Marine transport (IMDG)

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

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#### Air transport (ICAO-TI/IATA-DGR)

|  |  |
|--|--|
| <b>14.1. UN number:</b>                  | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

#### 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 Marpol and the IBC Code

not applicable

#### Other applicable information

none

### SECTION 15: Regulatory information

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

##### EU regulatory information

2010/75/EU (VOC): not applicable

2004/42/EC (VOC): not applicable

##### Additional information

none

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

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

Biocide registry number: not applicable

##### Additional information

none

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1,3,7,11.

#### 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%

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LD50: Lethal dose, 50%

**Relevant H and EUH statements (number and full text)**

|        |   |
|--------|---|
| H241   | Heating may cause a fire or explosion.  |
| H317   | May cause an allergic skin reaction.  |
| H319   | Causes serious eye irritation.  |
| EUH208 | Contains methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate; methyl methacrylate + dibenzoyl peroxide; benzoyl peroxide. May produce an allergic reaction. |

**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.

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