**Safety data sheet**
**according to 1907/2006/EC, Article 31**

*Printing date 28.02.2023* *Version number 4 (replaces version 3)* *Revision: 28.02.2023*

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

· **1.1 Product identifier**

· **Trade name:** **Technovit 4006 Powder colourless**

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Application of the substance / the mixture** Resin for metallographic testing

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
Kulzer GmbH
Leipziger Straße 2, 63450 Hanau (Germany)
Tel.: +49 (0)6181 9689-2570 (Wehrheim)

· **Informing department:** email: technik.wehrheim@kulzer-dental.com

· **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.

· **Hazard pictograms**

GHS07 GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**
dibenzoyl peroxide
methyl methacrylate

· **Hazard statements**
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.



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## SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Dangerous components:**

| | | |
|---|---|---|
| CAS: 94-36-0<br>EINECS: 202-327-6<br>Reg.nr.: 01-2119511472-50-xxxx | dibenzoyl peroxide<br>Self-react. B, H241; Org. Perox. B, H241<br>Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)<br>Eye Irrit. 2, H319; Skin Sens. 1, H317 | ≥1-<2.5% |
| CAS: 80-62-6<br>EINECS: 201-297-1<br>Reg.nr.: 01-2119452498-28-xxxx | methyl methacrylate<br>Flam. Liq. 2, H225<br>Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 | ≥1-≤5% |

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information**
Personal protection for the First Aider.
Instantly remove any clothing soiled by the product.
· **After inhalation** Supply fresh air; consult doctor in case of symptoms.
· **After skin contact**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation or rash occurs: Get medical advice/attention.
· **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
Remove contact lenses, if present and easy to do. Continue rinsing.
· **After swallowing**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.
· **4.2 Most important symptoms and effects, both acute and delayed** Allergic reactions
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents**
CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
· **5.2 Special hazards arising from the substance or mixture**
Combustible solids. Fine dust clouds can form explosive mixtures with air.
Formation of toxic gases is possible during heating or in case of fire.
Can be released in case of fire
Carbon dioxide (CO2)
Carbon monoxide (CO)
· **5.3 Advice for firefighters**
· **Protective equipment:**
Wear self-contained breathing apparatus.
(EN 133)

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· **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid contact with eyes and skin.
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Avoid causing dust.
Keep away from ignition sources
· **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Damp down dust with water spray jet.
· **6.3 Methods and material for containment and cleaning up:**
Collect mechanically.
Send for recovery or disposal in suitable containers.
· **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Provide suction extractors if dust is formed.
Avoid contact with eyes and skin.
Any deposit of dust which cannot be avoided must be removed regularly.
Prevent formation of dust.
Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.
· **Information about protection against explosions and fires:**
Use explosion-proof apparatus / fittings and spark-proof tools.
Dust can combine with air to form an explosive mixture.
Protect against electrostatic charges.
Keep ignition sources away - Do not smoke.

· **Handling**
do not mix with
reducing agent
Strong oxidizers
Strong bases
Strong acids

· **7.2 Conditions for safe storage, including any incompatibilities**
· **Storage**
· **Requirements to be met by storerooms and containers:**
Store in cool, dry place in tightly closed containers.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:**
Store cool (not above 25 °C).
Protect from heat and direct sunlight.
· **7.3 Specific end use(s)** No further relevant information available.


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## SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

| · **Components with critical values that require monitoring at the workplace:** | |
|---|---|
| **94-36-0 dibenzoyl peroxide** | |
| WEL (Great Britain) | Long-term value: 5 mg/m³ |
| **80-62-6 methyl methacrylate** | |
| WEL (Great Britain) | Short-term value: 416 mg/m³, 100 ppm<br>Long-term value: 208 mg/m³, 50 ppm |
| IOELV (European Union) | Short-term value: 100 ppm<br>Long-term value: 50 ppm |

| · **DNELs** | | |
|---|---|---|
| **94-36-0 dibenzoyl peroxide** | | |
| Oral | general population, long term, systemic | 2 mg/Kg (not defined) |
| Dermal | worker industrial, long term, systemic | 13.3 mg/Kg/d (not defined) |
| Inhalative | worker industrial, long term, systemic | 39 mg/m3 (not defined) |
| **80-62-6 methyl methacrylate** | | |
| Oral | general population, long term, systemic | 8.2 mg/Kg (not defined) |
| Dermal | worker industrial, long term, systemic | 13.67 mg/Kg/d (not defined) |
| | general population, long term, systemic | 8.2 mg/Kg/d (not defined) |
| Inhalative | worker industrial, acute, local | 416 mg/m3 (not defined) |
| | worker industrial, long term, systemic | 348.4 mg/m3 (not defined) |
| | worker industrial, long term, local | 208 mg/m3 (not defined) |
| | general population, acute, local | 208 mg/m3 (not defined) |
| | general population, long term, systemic | 74.3 mg/m3 (not defined) |

| · **PNECs** | |
|---|---|
| **94-36-0 dibenzoyl peroxide** | |
| freshwater | 0.00002 mg/l (not defined) |
| marine water | 0.000002 mg/l (not defined) |
| sewage treatment plant | 0.35 mg/l (not defined) |
| sediment, dry weight, freshwater | 0.013 mg/Kg (not defined) |
| sediment, dry weight, marine water | 0.001 mg/Kg (not defined) |
| soil, dry weight | 0.003 mg/Kg (not defined) |
| **80-62-6 methyl methacrylate** | |
| freshwater | 0.94 mg/l (not defined) |
| marine water | 0.094 mg/l (not defined) |
| sewage treatment plant | 10 mg/l (not defined) |
| sediment, dry weight, freshwater | 10.2 mg/Kg (not defined) |
| sediment, dry weight, marine water | 0.102 mg/Kg (not defined) |
| soil, dry weight | 1.48 mg/Kg (not defined) |

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

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· **Individual protection measures, such as personal protective equipment**
· **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
Do not eat or drink while working.
Avoid contact with the eyes and skin.
Instantly remove any soiled and impregnated garments.
Keep away from foodstuffs, beverages and food.
· **Breathing equipment:**
Use breathing protection in case of insufficient ventilation.
Use a mask with particle filter in case of dust generation.
· **Hand protection**
Not required.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
chemical protection gloves are suitable, which are tested according to EN 374
Check protective gloves prior to each use for their proper condition.
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
NBR: acrylonitrile-butadiene rubber (0,11 mm)
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
>30 min
· **Eye/face protection** eye protection (EN 166)
· **Body protection:** Light weight protective clothing
· **Environmental exposure controls**
Do not allow to enter the ground/soil.
Do not allow to enter drainage system, surface or ground water.

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**

| | |
|---|---|
| · **Physical state** | Solid. |
| · **Colour:** | According to product specification |
| · **Smell:** | Odourless |
| · **Melting point/freezing point:** | Not determined |
| · **Boiling point or initial boiling point and boiling range** | 100 °C (80-62-6 methyl methacrylate) |
| · **Flash point:** | Not applicable |
| · **SADT** | |
| · **pH** | Not applicable. |
| · **Viscosity:** | |
| · **Kinematic viscosity** | Not applicable. |
| · **dynamic:** | Not applicable. |
| · **Solubility** | |
| · **Water:** | Insoluble |
| · **Steam pressure:** | Not applicable. |

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| | |
|---|---|
| · **Density and/or relative density** | |
| · **Density** | Not determined |
| · **9.2 Other information** | No further relevant information available. |
| · **Appearance:** | |
| · **Form:** | Powder |
| · **Important information on protection of health and environment, and on safety.** | |
| · **Self-inflammability:** | Product is not selfigniting. |
| · **Explosive properties:** | Product is not explosive. However, formation of explosive powder/air mixtures is possible. |
| · **Information with regard to physical hazard classes** | |
| · **Explosives** | Void |
| · **Flammable gases** | Void |
| · **Aerosols** | Void |
| · **Oxidising gases** | Void |
| · **Gases under pressure** | Void |
| · **Flammable liquids** | Void |
| · **Flammable solids** | Void |
| · **Self-reactive substances and mixtures** | Void |
| · **Pyrophoric liquids** | Void |
| · **Pyrophoric solids** | Void |
| · **Self-heating substances and mixtures** | Void |
| · **Substances and mixtures, which emit flammable gases in contact with water** | Void |
| · **Oxidising liquids** | Void |
| · **Oxidising solids** | Void |
| · **Organic peroxides** | Void |
| · **Corrosive to metals** | Void |
| · **Desensitised explosives** | Void |

## SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.
· **10.2 Chemical stability**
· **Conditions to be avoided:** No decomposition if used and stored according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known
· **10.4 Conditions to avoid**
Heat, flames and sparks.
Avoid dust formation.
· **10.5 Incompatible materials:**
reducing agent
Strong bases
Strong oxidizers
Strong acids
· **10.6 Hazardous decomposition products:** None

## SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
· **Acute toxicity** Based on available data, the classification criteria are not met.

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· **LD/LC50 values that are relevant for classification:**

| | | |
|---|---|---|
| **94-36-0 dibenzoyl peroxide** | | |
| Oral | LD0 | >2,000 mg/kg (mouse) (OECD 401) |
| Inhalative | LC0/4h | 24.3 ppm (rat) (OECD 403) |
| **80-62-6 methyl methacrylate** | | |
| Oral | LD50 | ~7,900 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (guinea pig) (OECD 402) |
| Inhalative | LC50/4 h | 29.8 mg/l (rat) |

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
· **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
· **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
· **Carcinogenicity** Based on available data, the classification criteria are not met.
· **Reproductive toxicity** Based on available data, the classification criteria are not met.
· **STOT-single exposure** Based on available data, the classification criteria are not met.
· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

| | |
|---|---|
| **94-36-0 dibenzoyl peroxide** | |
| EC50/72h | 0.042 mg/l (algae) (OECD 201) |
| EC50/48h | 0.11 mg/l (daphnia) (OECD 202) |
| LC50/96h | 0.06 mg/l (fish) (OECD 203) |
| ErC50 / 72 h | 0.071 mg/l (algae) (OECD 201) |
| NOEC / 72h | 0.02 mg/l (algae) (OECD 201) |
| NOEC / 96h | 0.032 mg/l (fish) (OECD 203) |
| NOEC / 48h | 0.076 mg/l (daphnia) (OECD 202) |
| ErC10 | 0.001 mg/L /21d (daphnia) (OECD 211) |
| **80-62-6 methyl methacrylate** | |
| EC50/21d | 49 mg/L (daphnia) (OECD 211) |
| EC50/48h | 69 mg/l (daphnia) (EPA OTS 797.1300) |
| NOEC / 21d | 37 mg/l (daphnia) (OECD 211) |
| ErC50 / 72 h | >110 mg/l (algae) (OECD 201) |
| NOEC / 72h | 110 mg/l (algae) (OECD 201) |
| NOEC / 48h | 48 mg/l (daphnia) (EPA OTS 797.1300) |
| EbC50 / 72h | >110 mg/l (algae) (OECD 201) |
| NOEC/ 35d | 9.4 mg/L (fish) (OECD 210) |
| LC50/ 35d | 33.7 mg/L (fish) (OECD 210) |

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· **12.2 Persistence and degradability**

| | |
|---|---|
| **94-36-0 dibenzoyl peroxide** | |
| Biodegradation | 71 % /28d (not defined) (OECD 301D) |
| **80-62-6 methyl methacrylate** | |
| Biodegradation | 94 % /14d (not defined) (OECD 301C) |

· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

· **Uncleaned packagings:**
· **Recommendation:** Packaging can be reused or recycled after cleaning.

* 

## SECTION 14: Transport information

| | |
|---|---|
| · **14.1 UN number or ID number** | |
| · **ADR, IMDG, IATA** | UN3077 |
| · **14.2 UN proper shipping name** | |
| · **ADR** | 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) |
| · **IMDG** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), MARINE POLLUTANT |
| · **IATA** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) |

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· **14.3 Transport hazard class(es)**

· **ADR**

· **Class** 9 (M7) Miscellaneous dangerous substances and articles.

· **Label** 9

· **IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles.

· **Label** 9

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Marine pollutant:** Yes
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **Special marking (IATA):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Miscellaneous dangerous substances and articles.

· **Kemler Number:** 90

· **EMS Number:** F-A,S-F

· **Stowage Category** A

· **Stowage Code** SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 5 kg

· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g

· **Transport category** 3

· **Tunnel restriction code** (-)

· **IMDG**

· **Limited quantities (LQ)** 5 kg

· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 g

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| | |
|---|---|
| · | Maximum net quantity per outer packaging: 1000 g |
| · **UN "Model Regulation":** | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), 9, III |

## SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**
· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
· **Seveso category** E2 Hazardous to the Aquatic Environment
· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
· **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)**

· **Information about limitation of use:**
Employment restrictions concerning young persons must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**
H225 Highly flammable liquid and vapour.
H241 Heating may cause a fire or explosion.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**
SADT: Self Accelerating Decomposition Temperature
ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Self-react. B: Self-reactive substances and mixtures – Type B
Org. Perox. B: Organic peroxides – Type B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1

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*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*
*Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*
*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*
*Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2*

· **Sources**
*(EC) 1272/2008: classification, labelling and packaging of substances and mixtures*
*(EC) 1907/2006: UK REACH*
*ADR/RID/ADN - IDMG - IATA: transport of dangerous goods by road, rail, inland waterway, with maritime vessels and for the air transport*

· **** Data compared to the previous version altered.***