

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

Printing date 30.05.2022

Version number 5 (replaces version 4)

Revision: 30.05.2022

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

- **1.1 Product identifier**
 - Trade name: **Technovit 4004 Powder**
- **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**
 Aquatic Chronic 2 H411 (M=10) 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**



GHS09

- **Signal word** Void
- **Hazard statements**
 H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**
 P273 Avoid release to the environment.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Additional information:**
 Contains methyl methacrylate, dibenzoyl peroxide. May produce an allergic reaction.
- **2.3 Other hazards -**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
 - **Description:** -

· **Dangerous components:**

| | | |
|-----------------------------------|---|------|
| CAS: 94-17-7 EINECS: 202-310-3 | bis(4-chlorobenzoyl) peroxide Org. Perox. B, H241 Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 0-5% |
|-----------------------------------|---|------|

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Trade name: Technovit 4004 Powder

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|---|--|--------------------|
| CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-xxxx | methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 | ≥0.1-<1% |
| CAS: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50-xxxx | dibenzoyl peroxide Self-react. B, H241; Org. Perox. B, H241 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Eye Irrit. 2, H319; Skin Sens. 1, H317 | ≥0.25-<1% |

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - **General information** No special measures required.
 - **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**
No further relevant information available.
- **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 monoxide (CO)
Carbon dioxide (CO₂)
- **5.3 Advice for firefighters**
 - **Protective equipment:**
Wear self-contained breathing apparatus.
(EN 133)
 - **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

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- Wear protective equipment. Keep unprotected persons away.
Avoid causing dust.
Keep away from ignition sources
- **6.2 Environmental precautions:**
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.
Damp down dust with water spray jet.
 - **6.3 Methods and material for containment and cleaning up:**
Collect mechanically.
Dispose of the material collected according to regulations.
 - **6.4 Reference to other sections**
No dangerous materials are released.
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.
-

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
No special measures required.
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:**
Protect against electrostatic charges.
Dust can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Use only in explosion-proof area.
 - **Handling**
do not mix with
Strong oxidizers
reducing agent
Strong bases
Strong acids
metals
- **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:** 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:**

80-62-6 methyl methacrylate

| | |
|------------------------|--|
| WEL (Great Britain) | Short-term value: 416 mg/m ³ , 100 ppm Long-term value: 208 mg/m ³ , 50 ppm |
| IOELV (European Union) | Short-term value: 100 ppm Long-term value: 50 ppm |

94-36-0 dibenzoyl peroxide

| | |
|---------------------|--------------------------------------|
| WEL (Great Britain) | Long-term value: 5 mg/m ³ |
|---------------------|--------------------------------------|

· **DNELs**

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/m ³ (not defined) |
| | worker industrial, long term, systemic | 348.4 mg/m ³ (not defined) |
| | worker industrial, long term, local | 208 mg/m ³ (not defined) |
| | general population, acute, local | 208 mg/m ³ (not defined) |
| | general population, long term, systemic | 74.3 mg/m ³ (not defined) |

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/m ³ (not defined) |

· **PNECs**

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) |

94-36-0 dibenzoyl peroxide

| | |
|------------------------------------|----------------------------|
| freshwater | 0.00002 mg/l (not defined) |
| marine water | 0.00002 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) |

· **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.

Keep away from foodstuffs, beverages and food.

Avoid contact with the skin.

· **Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

Use a mask with particle filter in case of dust generation.

· **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check protective gloves prior to each use for their proper condition.

chemical protection gloves are suitable, which are tested according to EN 374

· **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

NBR: acrylonitrile-butadiene rubber (0,11 mm)

· **Penetration time of glove material**

The exact break through 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

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Not determined

· **Boiling point or initial boiling point and boiling range**

100 °C (80-62-6 methyl methacrylate)

· **Flammability**

Not applicable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable

· **Decomposition temperature:**

Not determined.

· **SADT**

· **pH**

Not determined.

· **Viscosity:**

· **Kinematic viscosity**

Not determined.

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| | |
|---|--|
| <ul style="list-style-type: none"> · dynamic: Not determined. · Solubility · Water: Not miscible or difficult to mix · Partition coefficient n-octanol/water (log value) Not determined. · Steam pressure: Not determined. · Density and/or relative density · Density Not determined · Relative density Not determined. · Vapour density Not determined. | |
| <ul style="list-style-type: none"> · 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. Not determined. · Change in condition · Evaporation rate Not determined. | |
| <ul style="list-style-type: none"> · 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:**
metals

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- reducing agent
- Strong oxidizers
- Strong bases
- Strong acids
- **10.6 Hazardous decomposition products:** None
- **Additional information:** -

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.

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

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) |

94-36-0 dibenzoyl peroxide

| | | |
|------------|--------|---------------------------------|
| Oral | LD0 | >2,000 mg/kg (mouse) (OECD 401) |
| Inhalative | LC0/4h | 24.3 ppm (rat) (OECD 403) |

- **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** Based on available data, the classification criteria are not met.
- **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**
 Taking into account the current state of scientific knowledge, no data on endocrine disrupting properties of the product are available.

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

· **Aquatic toxicity:**

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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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) |

12.2 Persistence and degradability

80-62-6 methyl methacrylate

Biodegradation 94 % /14d (not defined) (OECD 301C)

94-36-0 dibenzoyl peroxide

Biodegradation 71 % /28d (not defined) (OECD 301D)

· **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**

For information on endocrine disrupting properties see section 11.

· **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.

Avoid transfer into the environment.

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.

Disposal must be made according to official regulations.

· **Uncleaned packagings:**

· **Recommendation:**

Disposal must be made according to official regulations.

Non contaminated packagings can be used for recycling.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

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14.2 UN proper shipping name

· **ADR**

3077 ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, SOLID, N.O.S. (dibenzoyl
 peroxide, 2-ethylhexyl thioglycolate)

· **IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, SOLID, N.O.S. (dibenzoyl
 peroxide, 2-ethylhexyl thioglycolate)

14.3 Transport hazard class(es)

· **ADR**



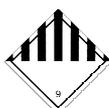
· **Class**

9 (M7) Miscellaneous dangerous substances
 and articles.

· **Label**

9

· **IMDG**



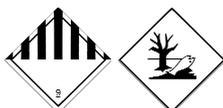
· **Class**

9 Miscellaneous dangerous substances and
 articles.

· **Label**

9

· **IATA**



· **Class**

9 Miscellaneous dangerous substances and
 articles.

· **Label**

9

14.4 Packing group

· **ADR, IMDG, IATA**

III

14.5 Environmental hazards:

· **Marine pollutant:**

No

· **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.

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| | |
|---|--|
| · 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 Maximum net quantity per outer packaging: 1000 g |
| · UN "Model Regulation": | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE, 2-ETHYLHEXYL THIOGLYCOLATE), 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
 - **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.

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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
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 - IMDG - 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.**