

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 12/12/2003

Reviewed on 12/12/2003

1 Identification of substance:

· **Product details:**

- **Trade name:** Technovit 2060 powder
 - **Application of the substance / the preparation** universal material
- **Manufacturer/Supplier:**
Heraeus Kulzer GmbH & Co. KG
Grüner Weg 11, D-63450 Hanau
Tel.: 06081 959-365 (Wehrheim)
- **Information department:**
Department of safety:
Dr. Tuchscherer +49 6081 959-287
- **Emergency information:** Call +49 30 19240 (24 hours).

2 Composition/Data on components:

· **Chemical characterization**

- **Description:** Product based on methacrylate copolymerisates

· **Dangerous components:**

94-36-0	dibenzoyl peroxide	Xi, E; R 2-36-43	0-5%
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- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

· **Hazard description:**



Xi Irritant

· **Information pertaining to particular dangers for man and environment**

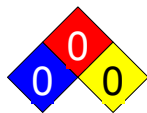
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 43 May cause sensitization by skin contact.

· **Classification system**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

- **NFPA ratings for USA (scale 0-4)**



Health = 0
Fire = 0
Reactivity = 0

- **HMIS-Ratings (Scale 0-4)**



Health = 0
Fire = 0
Reactivity = 0

4 First aid measures

- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water.

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- **After swallowing** Induce vomiting and seek advice of physician.

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5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling**
 - **Information for safe handling:** No special measures required.
 - **Information about protection against explosions and fires:** No special measures required.
- **Storage**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**

94-36-0 dibenzoyl peroxide

PEL (USA)	5 mg/m ³
REL (USA)	5 mg/m ³
TLV (USA)	5 mg/m ³

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**
 - **General protective and hygienic measures**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
 - **Breathing equipment:** Not required.
 - **Protection of hands:**
If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.
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

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· **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.

· **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.

· **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Natural rubber, NR

Chloroprene rubber, CR

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

PVC or PE gloves

· **Eye protection:** Not absolutely necessary.

· **Body protection:** Light weight protective clothing

9 Physical and chemical properties:

· **General Information**

· Form:	Powder
· Color:	Black
· Odor:	Odorless

· **Change in condition**

· Melting point/Melting range:	undetermined
· Boiling point/Boiling range:	undetermined

· **Flash point:** Not applicable

· **Ignition temperature:** 400°C (752°F)

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive powder/air mixture mis possible.

· **Density:** Not determined

· **Solubility in / Miscibility with**

· Water:	Insoluble
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· **Solvent content:**

· Organic solvents:	0.0 %
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· **Solids content:** 100.0 %

10 Stability and reactivity

· **Dangerous reactions** No dangerous reactions known
 · **Dangerous products of decomposition:** none

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11 Toxicological information

- **Acute toxicity:**
 - **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritating effect.
 - **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

12 Ecological information:

- **General notes:** Generally not hazardous for water.

13 Disposal considerations

- **Product:**
 - **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
 - **Recommendation:** Packaging can be reused or recycled after cleaning.
- **DOT regulations:**
 - **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
 - **ADR/RID class:** -
Flammable solids
- **Maritime transport IMDG:**
 - **IMDG Class:** -
 - **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
 - **ICAO/IATA Class:** -

15 Regulations

· SARA Section 355 (extremely hazardous substances)	
None of the ingredients is listed.	
· SARA Section 313 (specific toxic chemical listings)	
94-36-0	dibenzoyl peroxide
· TSCA (Toxic Substances Control Act)	
94-36-0	dibenzoyl peroxide
84-61-7	dicyclohexyl phthalate
7732-18-5	water, distilled, conductivity or of similar purity
68186-87-8	Cobaltzinkaluminatblauspinell
68186-94-7	Mangan-Kobalt-Oxid
· Prop 65 - Chemicals known to cause cancer	
None of the ingredients is listed.	

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· **Prop 65 - Chemicals known to cause reproductive toxicity**

None of the ingredients is listed.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **IARC (International Agency for Research on Cancer)**

94-36-0 dibenzoyl peroxide 3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

94-36-0 dibenzoyl peroxide A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Markings according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· **Code letter and hazard designation of product:**

Xi Irritant

· **Hazard-determining components of labelling:**

dibenzoyl peroxide

· **Risk phrases:**

43 May cause sensitization by skin contact.

· **Safety phrases:**

24 Avoid contact with skin.

37 Wear suitable gloves.

· **National regulations**

· **Water hazard class:** Generally not hazardous for water.

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.

· **Department issuing MSDS:** Safety department

· **Contact:** Dr. Tuchscherer Tel.: +49 6081 959-287

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

USA