

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 04.03.2010

Revision: 04.03.2010

1 Identification of substance· **Product details**· **Trade name: Technovit 5000 powder**· **Application of the substance / the preparation** Resin for metallographic testing· **Manufacturer/Supplier:**Heraeus Kulzer GmbH
Grüner Weg 11, D-63450 Hanau
Tel.: 06081 959-365 (Wehrheim)· **Informing department:**Stefan Schreier
Tel.: +49 6081 959-367
Fax: +49 6081 959-398
email: stefan.schreier@heraeus.com· **Emergency information:**

Call "Poisoning Emergency Center Berlin": +49 30 30686 790 (24 hours, support in english and german language)

2 Hazards identification· **Hazard designation:** void· **Information pertaining to particular dangers for man and environment**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients· **Chemical characterization**· **Description:** -· **Dangerous components:** Void· **Additional information** For the wording of the listed risk phrases refer to section 16.**4 First aid measures**· **General information** No special measures required.· **After skin contact** The product is not skin irritating.· **After eye contact** Rinse opened eye for several minutes under running water.· **After swallowing** Initiate vomiting and consult a doctor.**5 Fire fighting measures**· **Suitable extinguishing agents**CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.· **Protective equipment:** No special measures required.· **Additional information** -**6 Accidental release measures**· **Person-related safety precautions:** Not required.· **Measures for environmental protection:** No special measures required.· **Measures for cleaning/collecting:** Collect mechanically.

(Contd. on page 2)

GB

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(Contd. of page 1)

- **Additional information:**
No dangerous materials are released.
See Section 8 for information on personal protection equipment.

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 containers:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** Store cool (not above 25 °C).

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with critical values that require monitoring at the workplace:**

7440-50-8 copper

OES ()	Short-term value: 2** mg/m ³ Long-term value: 0.2* 1** mg/m ³ *fume **dusts and mists
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- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
 - **General protective and hygienic measures**
The usual precautionary measures should be adhered to in handling the chemicals.
 - **Breathing equipment:** Not required.
 - **Protection of hands:** Not required.
 - **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.
 - **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.
 - **Eye protection:** not absolutely necessary
 - **Body protection:** Light weight protective clothing

9 Physical and chemical properties:

· General Information

- | | |
|------------------|-----------------|
| · Form: | Powder |
| · Colour: | Copper coloured |
| · Smell: | Odourless |

· Change in condition

- **Melting point/Melting range:** 1083°C
- **Boiling point/Boiling range:** Not determined

- **Flash point:** Not applicable

- **Self-inflammability:** Product is not selfigniting.

(Contd. on page 3)

GB

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(Contd. of page 2)

- | | |
|---|---------------------------|
| · Danger of explosion: | Product is not explosive. |
| · Steam pressure at 20°C: | 0 mbar |
| · Density at 20°C | 8.960 g/cm ³ |
| · Solubility in / Miscibility with | |
| · Water: | Unsoluble |
| · Solvent content: | |
| · Solids content: | 100.0 % |

10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

11 Toxicological information

- **Acute toxicity:**
 - **Primary irritant effect:**
 - **on the skin:** No irritant effect.
 - **on the eye:** No irritant effect.
 - **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information:

- **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Product:**
 - **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.

- **European waste catalogue**

11 01 98 | other wastes containing dangerous substances

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

GB

(Contd. on page 4)

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(Contd. of page 3)

14 Transport information

· **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 9 (M7) Miscellaneous dangerous substances and articles.
- **Kemler Number:** 90
- **UN-Number:** 3077
 - **Packaging group:** III
- **Label** 9
- **Designation of goods:** 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

· **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 9
- **UN Number:** 3077
- **Packaging group:** III
- **Marine pollutant:** Yes
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 9
- **UN/ID Number:** 3077
- **Packaging group:** III
- **Correct technical name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper)

· **Transport/Additional information:** -

15 Regulatory information

· **Designation according to EC guidelines:**

Observe the normal safety regulations when handling chemicals

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

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.

(Contd. on page 5)

GB

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(Contd. of page 4)

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

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