

Printing date 25.06.2017

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	cation of the substance/mixture and of the co	mpany	
undertaking		• •	
· 1.1 Product identifier			
• Trade name: Technovit 5000 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 • Manufacturer/Supplier Kulzer GmbH Leipziger Straße 2, 6345 Tel.: +49 (0)6181 9689-2 	: 50 Hanau (Germany)		
	email: technik.wehrheim@kulzer-dental.com number: Emergency CONTACT (24-Hour-Number): +49 (0)61	32-8446	
SECTION 2: Hazards	identification		
· 2.1 Classification of the s			
Aquatic Acute 1 H400			
• Hazard pictograms	l and labelled according to the CLP regulation.		
GHS09			
Signal word Warning Hazard statements H400 Very toxic to ac Precautionary state P273 Avoid release to	- quatic life. ments		
2.3 Other hazards -			
• Results of PBT and vP • PBT: Not applicable.	vB assessment		
• vPvB: Not applicable	2.		
	ition/information on ingredients		
· 3.2 Chemical characterisa · Description: -			
· Dangerous component			
	copper	> 90%	
CAS: 7440-50-8 EINECS: 231-159-6	Aquatic Acute 1, H400		

(Contd. on page 2)



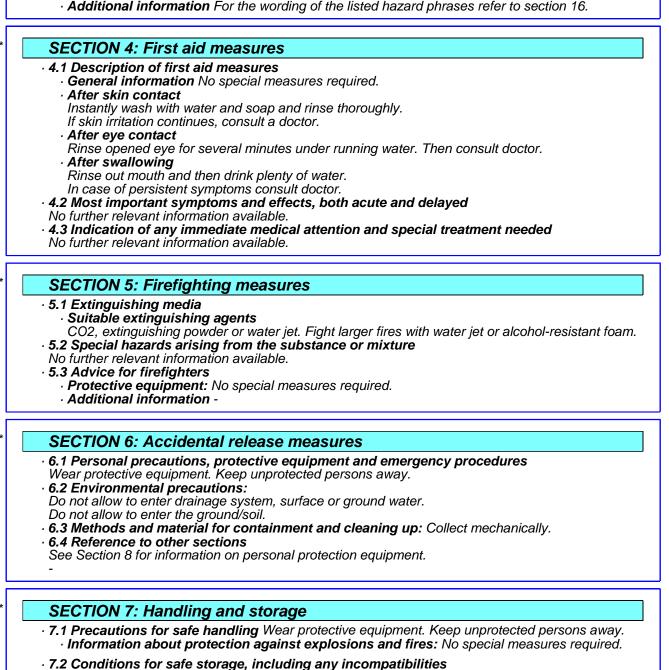
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(Contd. of page 1) Additional information For the wording of the listed hazard phrases refer to section 16.



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).

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· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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Additional information about design of technical systems: No further data; see item 7. 8.1 Control parameters Components with critical values that require monitoring at the workplace: 7440-50-8 copper WEL Short-term value: 2** mg/m³ Long-term value: 0.2* 1** mg/m³ *fume **dusts and mists (as Cu) Additional information: The lists that were valid during the compilation were used as basis. 8.2 Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals.

- · Breathing equipment:
- Use a mask with particle filter in case of dust generation.
- Filter P2.

Protection of hands:

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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:
- Nitrile rubber, NBR
- Eye protection: Safety glasses
- · Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties **General Information** Appearance: Form: Powder · Colour: Copper coloured · Smell: Odourless · Odour threshold: Not determined. · pH-value: Not applicable. Change in condition Melting point/Melting range: 1083 °C · Boiling point/Boiling range: Not determined · Flash point: Not applicable Inflammability (solid, gaseous) Not determined. (Contd. on page 4)



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 Ignition temperature: 		
 Decomposition temperature: 	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
 Critical values for explosion: Lower: Upper: 	Not determined. Not determined.	
 Steam pressure at 20 °C: 	0 mbar	
 Density at 20 °C Relative density Vapour density Evaporation rate 	8.960 g/cm ³ Not determined. Not applicable. Not applicable.	
 Solubility in / Miscibility with Water: 	Insoluble	
· Partition coefficient (n-octanol/w	vater): Not determined.	
 Viscosity: dynamic: kinematic: 	Not applicable. Not applicable.	
· Solvent content:		
Solids content: 9.2 Other information	100.0 % No further relevant information available.	

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 No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

Primary irritant effect:

- 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.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

- 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.

(Contd. on page 5)



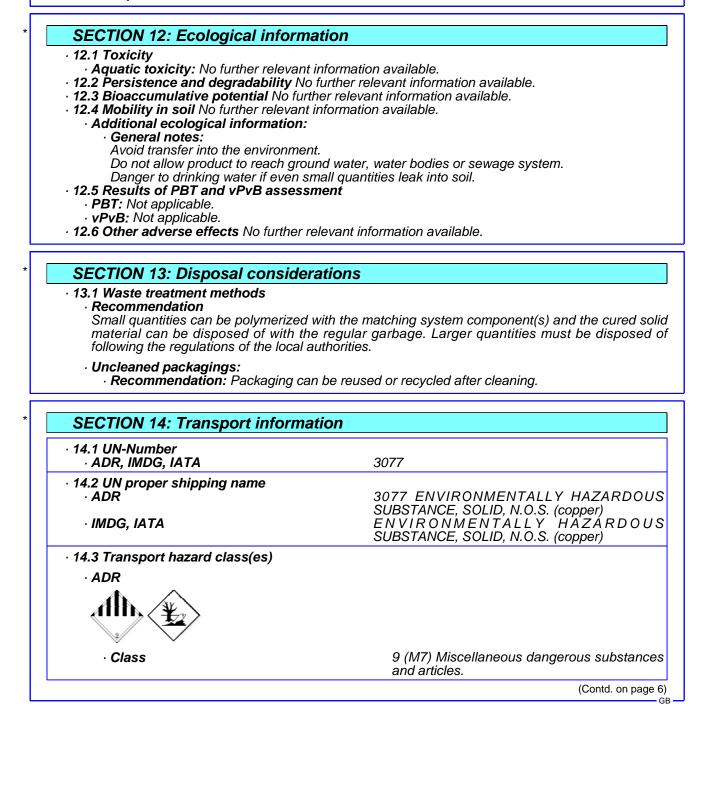
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(Contd. of page 4) • **STOT-repeated exposure** Based on available data, the classification criteria are not met. • **Aspiration hazard** Based on available data, the classification criteria are not met.





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· Label	9			
· IMDG, IATA				
· Class	9 Miscellaneous dangerous substances and articles.			
· 14.4 Packing group				
· ADR, IMĎĞ, IATA	III			
 · 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): 	Yes Symbol (fish and tree) Symbol (fish and tree)			
· Special marking (IATÁ):	Symbol (fish and tree)			
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.			
· Kemler Number:	90			
 14.7 Transport in bulk according to Ann of Marpol and the IBC Code 	• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.			
Transport/Additional information:	-			
· UN "Model Regulation":	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper), 9, III			

SECTION 15: Regulatory information

· 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

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life. 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 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 Septing (division of the American Chemical Septint) CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Self-react. B: Self-reactive substances and mixtures – Type B

Org. Perox. B: Organic peroxides – Type B Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Śkin Sens. 1: Skin sensitisation – Category 1

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Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 · * **Data compared to the previous version altered.**

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