

Printing date 26.06.2017

Version number 3

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

- · 1.1 Product identifier
  - Trade name: Technovit 7100 hardener 2
- 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 histological examinations
- · 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 Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
  - · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection. P337+P313 If eye irritation persists: Get medical advice/attention.

- · 2.3 Other hazards -
  - Results of PBT and vPvB assessment
    - · PBT: Not applicable.
    - · vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
  - · Description: -
  - · Dangerous components:

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· 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
  - · After inhalation Supply fresh air; consult doctor in case of symptoms.
  - · After skin contact if skin irritation continues, consult a doctor.
  - · After eye contact Rinse opened eye for several minutes under running water.
  - · 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.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- · 5.3 Advice for firefighters
  - · Protective equipment: No special measures required.
  - · Additional information -

## SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- · 6.2 Environmental precautions: Dilute with much water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

· 6.4 Reference to other sections

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 Store in cool, dry place in tightly closed containers.
  - Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
  - 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: None.
- · 7.3 Specific end use(s) No further relevant information available.

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# SECTION 8: Exposure controls/personal protection

· 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· 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

Wash hands during breaks and at the end of the work.

· Breathing equipment: Not required.

· Protection of hands:

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

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.

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: Fluorocarbon rubber (Viton) Chloroprene rubber, CR

Natura'l rubber, NR

- · Eye protection: Tightly sealed safety glasses.
- · Body protection: Light weight protective clothing

# SECTION 9: Physical and chemical properties

9.1 Information on basic physical and General Information	chemical properties	
· Appearance:		
· Form:	Fluid	
· Colour:	White	
· Smell:	Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined 189°C	
· Flash point:	95 °C	
· Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	300.0 °C	
· Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
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· Danger of explosion:	Product is not explosive.	
<ul> <li>Critical values for explosion:</li> <li>Lower:</li> <li>Upper:</li> </ul>	3.5 Vol % Not determined.	
· Steam pressure at 20 °C:	2.5 hPa	
<ul> <li>Density at 20 °C</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	1.1 g/cm³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Fully miscible	
· Partition coefficient (n-octanol/	water): Not determined.	
· Viscosity: · dynamic at 20 °C: · kinematic:	200 mPas Not determined.	
· Solvent content:		
· Solids content: · 9.2 Other information	15.0 % 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
  - · Additional information: -

## SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
  - · Acute toxicity Based on available data, the classification criteria are not met.
    - · LD/LC50 values that are relevant for classification:

#### Dimethylsulfoxid

 Oral
 LD50
 14500 mg/kg (rat)

 Dermal
 LD50
 >5000 mg/kg (rabbit)

 Inhalative
 LC50/4 h
 40250 mg/l (rat)

- · Primary irritant effect:
  - Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation

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

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- · 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.
- 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.

# SECTION 12: Ecological information

- · 12.1 Toxicity
  - · Aquatic toxicity:

#### Dimethylsulfoxid

LC50/96h 34000 mg/l (fish)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
  - Additional ecological information:
    - · General notes: Avoid transfer into the environment.
- · 12.5 Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

## SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
  - · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Śmall 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.

- · Waste disposal key number: 572
- · European waste catalogue
- 11 01 98\* other wastes containing dangerous substances
  - · Uncleaned packagings:
    - · Recommendation: Disposal must be made according to official regulations.
    - · Recommended cleaning agent: Water, if necessary with cleaning agent.

# SECTION 14: Transport information · 14.1 UN-Number · ADR, ADN, IMDG, IATA Void · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA Void

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· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Anr of Marpol and the IBC Code	n <b>ex II</b> Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

# SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or
  - REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- · 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

H315 Causes skin irritation.

H319 Causes serious eve irritation.

Abbreviations and acronyms:

ADDI Eviations and acronyms.

ADD: 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 Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

\* Data compared to the previous version altered.