

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

Printing date 26.06.2017

Version number 3

Revision: 26.06.2017

1.1 Product identifier	
	novit 9100 hardener 2 new
	uses of the substance or mixture and uses advised against
· Application of the s	ubstance / the mixture Resin for histological examinations
 Manufacturer/Supple Kulzer GmbH 	3450 Hanau (Germany)
	nt: email: technik.wehrheim@kulzer-dental.com ne number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-844
SECTION 2: Hazard	
2.1 Classification of the Classification accor	e substance or mixture ding to Regulation (EC) No 1272/2008
Acute Tox. 4 H302 H	
Skin Irrit. 2 H315 (Causes skin irritation.
Eye Irrit. 2 H319 (Causes serious eye irritation.
STOT SE 3 H335 N	May cause respiratory irritation.
STOTRE2 H373 N	May cause damage to organs through prolonged or repeated exposure.
· Hazard pictogran	ns
GHS07 GHS08	
· Signal word Warr	ning
· Hazard-determini	ing components of labelling:
N,N,3,5-tetramethy	
 Hazard statemen H302 Harmful if sv 	
H315 Causes skin	irritation.
	ous eye irritation.
H319 Causes seri	
H319 Causes seri H335 May cause r	
H319 Causes seri H335 May cause r	damage to organs through prolonged or repeated exposure.
H319 Causes seri H335 May cause r H373 May cause c	damage to organs through prolonged or repeated exposure. atements Keep away from oxidising and acidic substances, as well as heavy me
H319 Causes seri H335 May cause r H373 May cause c • Precautionary sta P220 P280	damage to organs through prolonged or repeated exposure. atements Keep away from oxidising and acidic substances, as well as heavy me compounds. Wear protective gloves/protective clothing/eye protection/face protection 3 IF IN EYES: Rinse cautiously with water for several minutes. Remo
H319 Causes seri H335 May cause r H373 May cause c • Precautionary sta P220 P280	damage to organs through prolonged or repeated exposure. atements Keep away from oxidising and acidic substances, as well as heavy me compounds. Wear protective gloves/protective clothing/eye protection/face protection



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· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
 Description:

· Dangerous components:

CAS: 4913-13-7 EINECS: 225-539-0 Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335

___ 25-50%

· 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

General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · 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. If symptoms persist, consult doctor. *After swallowing*

Rinse out mouth and then drink plenty of water.

Instantly call for doctor.

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
- Formation of toxic gases is possible during heating or in case of fire.
- · 5.3 Advice for firefighters
 - Protective equipment: Put on breathing apparatus.
 - · Additional information -

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: No special measures required.

• 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Dispose of contaminated material as waste according to item 13.

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6.4 Reference to other sections

No dangerous materials are released.

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

- Keep containers tightly sealed.
- Ensure good ventilation/exhaustion at the workplace.

· 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.

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 Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.

· Breathing equipment: Not required.

Protection of hands:

Solvent resistant gloves

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

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

· Eye protection: Safety glasses

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· Body protection: Light weight protective clothing

9.1 Information on basic physical and	d chemical properties	
· General Information		
· Appearance:		
· Form: · Colour:	Fluid Colourless	
· Smell:	Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/Melting range:	-3836 °C	
Boiling point/Boiling range:	227 °C	
· Flash point:	Not applicable	
 Inflammability (solid, gaseous) 	Not applicable.	
 Ignition temperature: 	320.0 °C	
 Decomposition temperature: 	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
 Critical values for explosion: 		
· Lower:	Not determined.	
· Upper:	Not determined.	
 Steam pressure at 20 °C: 	1 hPa	
 Density at 20 °C 	1.090 g/cm³	
· Relative density	Not determined.	
 Vapour density Evaporation rate 	Not determined. Not determined.	
•	Not determined.	
 Solubility in / Miscibility with Water at 20 °C: 	500 g/l	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
· dynamic at 20 °C:	100 mPas	
· kinematic:	Not determined.	
· Solvent content:	- 4	
· VOC EU 9.2 Other information	g/l No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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
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- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: organic peroxides
- 10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
 - Acute toxicity
 - Harmful if swallowed.

· LD/LC50 values that are relevant for classification:

Polyethylenglycol 200

Oral LD50 15000 mg/kg (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.
- 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
- May cause respiratory irritation.
- STOT-repeated exposure
- May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
 - Aquatic toxicity: No further relevant information available.
- · 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

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.

Waste disposal key number: 55370

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· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number		
· ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
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 An of Marpol and the IBC Code	nex II 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 mixture

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

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure.

Abbreviations and acronyms:

ADDreviations 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 EURECS: European Inventor of Evicting Commercial Chemical Systems

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society) (Contd. of page 6) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweis (Swiss Ordinance on volatile organic compounds) compounds) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 * Data compared to the previous version altered

* Data compared to the previous version altered.

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