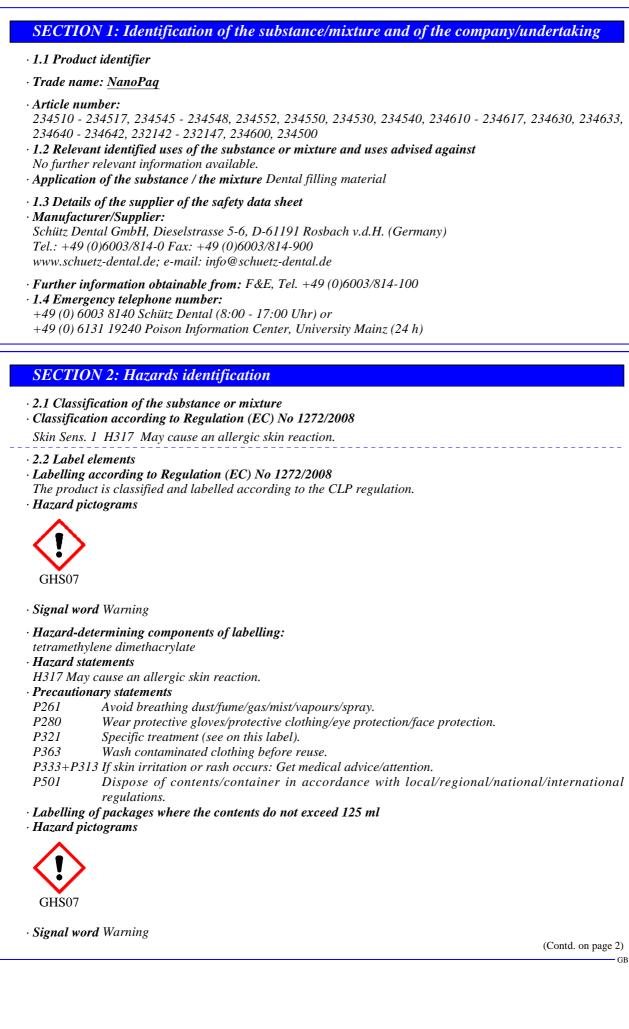
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	(Co	ontd. of page 1)
· Hazard-determining components of labelling:		
tetramethylene dimethacrylate		
· Hazard statements		
H317 May cause an allergic skin reaction.		
· Precautionary statements		
P261 Avoid breathing dust/fume/gas/mist/vapours/spray		
P280 Wear protective gloves/protective clothing/eye pro	otection/face protection.	
P321 Specific treatment (see on this label).		
P363 Wash contaminated clothing before reuse.		
P333+P313 If skin irritation or rash occurs: Get medical advi P501 Dispose of contents/container in accordance		tornational
regulations.	with local/regional/national/ini	lernallonal
· 2.3 Other hazards		
· Results of PBT and vPvB assessment		
• PBT: Not applicable.		
· vPvB: Not applicable.		
SECTION 3: Composition/information on ingredie	ents	
· 3.2 Chemical characterisation: Mixtures		
· Description:		
1,4-Butandioldimethacrylate		
Urethandimethacrylate		
Bis-GMA		
· Dangerous components:		
CAS: 2082-81-7 tetramethylene dimethacrylate	(1) Skin Sens. 1B, H317	2,5-10%
EINECS: 218-218-1	•	
· Additional information For the wording of the listed risk phra	ses refer to section 16.	
SECTION 4: First aid measures		
• 4.1 Description of first aid measures		
• General information No special measures required.		
• After inhalation Supply fresh air; consult doctor in case of con	nplaints.	
• After skin contact	-	
Immediately wash with water and soap and rinse thoroughly.		
If skin irritation continues, consult a doctor.		
· After eye contact		
Rinse opened eye for several minutes under running water. If s	ymptoms persist, consult a doctor.	
· After swallowing		
Seek medical treatment.		
Rinse out mouth and then drink plenty of water.	and No furth on not ought inform ation	a anailabla
• 4.2 Most important symptoms and effects, both acute and dela • 4.3 Indication of any immediate medical attention and specia		n available.
<i>No further relevant information available.</i>	i ireaimeni neeaea	
No jumer recevant information available.		
SECTION 5: Firefighting measures		
5.1 Extinguishing media		
CAL MANING MOUNTS MOUNT		

 Suitable extinguishing agents Foam
Fire-extinguishing powder
Water haze
Carbon dioxide
For safety reasons unsuitable ex

 $\cdot \textit{For safety reasons unsuitable extinguishing agents Water with full jet.}$

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- (Contd. of page 2) • **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- · 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 disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special measures required.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities

· Storage

- *Requirements to be met by storerooms and receptacles:* Storage between 10 °C and 25 °C.
- *Close container immediately after use and protect product from light incidence.*
- · Information about storage in one common storage facility: Store away from foodstuffs.
- 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 facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit 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 valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

- · Respiratory protection: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Butyl rubber, BR
- · Penetration time of glove material

0,1 - 0,2 mm

Penetration time: 5 min.

• *Eye protection: Goggles recommended during refilling.*

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~	nemical properties	
9.1 Information on basic physical a	and chemical properties	
General Information		
Appearance:		
Form:	Pasty	
Colour:	According to product specification	
Odour:	Weak, characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	undetermined	
Boiling point/Boiling range:	101 °C	
Flash point:	101 °C	
Flammability (solid, gaseous)	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not determined.	
Density at 20 °C:	2.1 g/cm ³	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
Solvent content:		
Organic solvents:	0.0 %	
9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

Photoreactive

Danger of polymerization

• 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials:

In presence of radical formers (e. g. peroxides), deoxidizing substances, and/or heavy metal ions, polymerization with heat release is possible.

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· 10.6 Hazardous decomposition products: No dangerous decomposition products known

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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
- May cause an allergic skin reaction.
- · 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.*
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- $\cdot \textit{STOT-repeated exposure Based on available data, the classification criteria are not met.}$
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- \cdot 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- $\cdot \textit{Additional ecological information:}$
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · 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 be specially treated adhering to official regulations.

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

· European waste catalogue

08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11

- · Uncleaned packaging:
- · Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product. • **Recommended cleansing agents:** Acetone

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SECTION 14: Transport information · 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 Void · Class · 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 Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: Not dangerous according to the above specifications. Void · UN "Model Regulation":

SECTION 15: Regulatory information

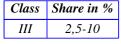
· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· National regulations

· Technical instructions (air):



· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H317 May cause an allergic skin reaction.

- · Department issuing MSDS: F & E
- · Contact: Dr. U. Krichbaum

· 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 Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

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Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B • * Data compared to the previous version altered. (Contd. of page 6)

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