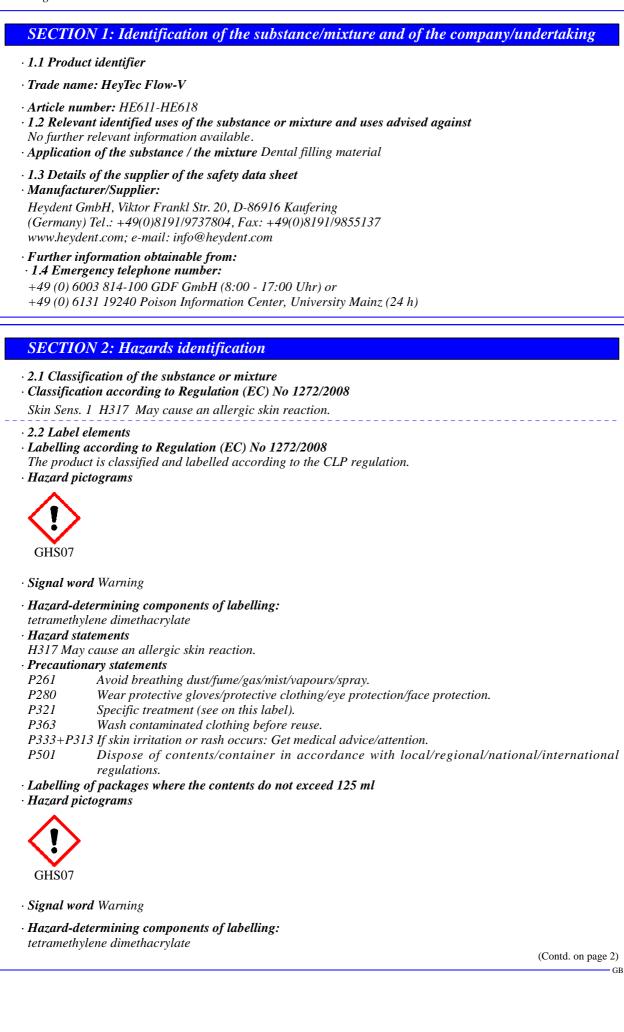
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Hazard statements	(C	ontd. of page 1)		
H317 May cause an allergic skin reaction.				
Precautionary statements				
P261 Avoid breathing dust/fume/gas/mist/vapours/spra	у.			
P280 Wear protective gloves/protective clothing/eye pr	otection/face protection.			
P321 Specific treatment (see on this label).	•			
P363 Wash contaminated clothing before reuse.				
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.				
P501 Dispose of contents/container in accordance	e with local/regional/national/in	iternational		
regulations.				
2.3 Other hazards				
Results of PBT and vPvB assessment				
PBT: Not applicable. vPvB: Not applicable.				
SECTION 3: Composition/information on ingredie	ents			
1 J 8				
3.2 Chemical characterisation: Mixtures				
Description:				
Urethandimethacrylate				
1,4-Butandioldimethacrylate				
Dangerous components:				
CAS: 2082-81-7 tetramethylene dimethacrylate	() 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.			
v 0.5 1	<i>.</i>			
SECTION 4: First aid measures				
4.1 Description of first aid measures				
General information No special measures required.				
<i>After inhalation Supply fresh air; consult doctor in case of con</i> <i>After skin contact</i>	mpiainis.			
<i>After skin contact</i> <i>Immediately wash with water and soap and rinse thoroughly.</i>				
If skin irritation continues, consult a doctor.				
After eye contact Rinse opened ave for several minutes under running water. If s	winntoms parsist consult a doctor			
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.				
<i>After swallowing</i> <i>Rinse out mouth and then drink plenty of water.</i>				
Call a doctor immediately.				
4.2 Most important symptoms and effects, both acute and del	aved No further relevant informatio	n availahle		
4.3 Indication of any immediate medical attention and specia				
<i>No further relevant information available.</i>	n n cument necuéu			
SECTION 5: Firefighting measures				
5.1 Extinguishing media				

- · Suitable extinguishing agents
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- \cdot For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters Protective equipment: Adapt to environment.

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SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Avoid eye and skin contact with the substance.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- \cdot 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections No dangerous substances are released.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep away from heat and direct sunlight. 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:

Close container immediately after use and protect product from light incidence. Storage between 10 °C and 25 °C.

- · 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 necessary if room is well-ventilated.
- · 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.
- · Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

- General Information
- · Appearance: Form:

Colour:

· Odour:

Viscous According to product specification Weak, characteristic

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· Odour threshold:	Not determined.		
· pH-value:	Not determined.		
Change in condition			
Melting point/Melting range:	< - 20 °C		
Boiling point/Boiling range:	251 °C		
Flash point:	113 °С		
Flammability (solid, gaseous)	Not applicable.		
Ignition temperature:	400 °C		
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:	1,3 mbar (110 °C)		
Density:	Not determined		
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/we	uter): 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 Exothermic 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.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known

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 relevant for classification:

tetramethylene dimethacrylate LD-50 oral > 5000 mg/kg (rat)

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- 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.
- \cdot Carcinogenicity Based on available data, the classification criteria are not met.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- 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.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 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.

· European waste catalogue

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Ethyl acetate

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		
· Class	Void	
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· 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.			
· UN "Model Regulation":	Void		

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):

 Class
 Share in %

 III
 2,5-10

• 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 GDF GmbH
- · Contact: Dr. U. Krichbaum
- Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B

 \cdot * Data compared to the previous version altered.