

**Trade name: Usig glue**  
**Safety data sheet in accordance with 91/155/EEC**  
 Date of printing : 14.07.2009

**01. Identification**

01.01 Product details	
01.01.01. Trade name	Usig glue
01.02. Identification of the manufacturer	
01.02.01. Address	ERKODENT Erich Kopp GmbH, Siemensstr. 3, D-72285 Pfalzgrafenweiler
01.02.02. Information provided by	Chemie
01.02.03. Telephone number	Tel.: (+49) (0) 7445 / 85 01 - 0, Fax: (+49) (0) 7445 / 20 92
01.02.04. Emergency telephone number :	

**02. Composition/information on ingredients**

02.01. Chemical characterization	Befestigungsmaterial für dentale Anwendungen; Fixing material for dental applications; Matériau de fixation pour des applications dentales.
02.02. Substance / product identification	
02.03. Hazardous ingredients	None
02.04. Additional information	-

**03. Hazards possibilities**

03.01. Hazard designation	The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.
03.02. Particular information pertaining specific risk for human / environment	None

**04. First aid measures**

04.01. General Information	Remove soiled or soaked clothing immediately, do not allow to dry.
04.02. First aid measures / inhalation.	Remove the casualty into fresh air and keep him calm., By continuous complaints consult a physician.
04.03. First aid measures / skin contact.	In case of contact with skin wash off immediately with soap and water., Consult a doctor if skin irritation persists.
04.04. First aid measures / eye contact.	Separate eyelids, wash the eyes thoroughly with water (15 min.), In case of irritation consult an oculist.
04.05. First aid measures / ingestion.	Take medical treatment.
04.06. Advice to doctor	-

**05. Fire-fighting measures**

05.01. Suitable extinguishing media	foam, dry powder, water spray jet,
05.02. Extinguishing media that must not be used for safety reasons	Full water jet
05.03. Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases.	-
05.04. Special protective equipment for firefighting	Use self-contained breathing apparatus.
05.05. Additional informations (chapter 5)	-

**06. Accidental release measures**

06.01. personal precautions.	Use personal protective clothing., Keep away sources of ignition., Ensure adequate ventilation., Avoid contact with skin, eyes and clothing.
06.02. environmental precautions.	Do not discharge into the drains/surface waters/groundwater.
06.03. methods for cleaning up/taking up.	Pick up mechanically., Pick up with absorbent material (eg sand, kieselgur, acid binder,

	universal binder, sawdust), Dispose of as prescribed.
06.04. Additional informations (chapter 6).	-

## 07. Handling and storage

07.01. Handling	
07.01.01. Hints on safe handling.	Observe the usual precautions for handling chemicals., Provide good ventilation of working area (local exhaust ventilation if necessary).
07.01.02. Hints for protection against fire and explosion.	Keep away from sources of ignition - refrain from smoking.
07.02. Storage	
07.02.01. Requirements for storage rooms and vessels.	Store product in closed containers.,
07.02.02. Hints on storage assembly.	-
07.02.03. Further information on storage conditions.	Keep container tightly closed, cool and dry., Protect from light., Protect from heat and direct sunlight.
07.02.04. Storage category	-
07.02.05. Storage stability	-
07.02.06. Recommended storage temperature	Max. + 8 °C

## 08. Exposure controls/personal protection

08.01. Additional hints on technical system design.	-
08.02. Ingredients with occupational exposure limits to be monitored	-
08.03. Personal protective equipment <input type="checkbox"/> Personal protective equipment <input type="checkbox"/> Persönliche Schutzausrüstung	
08.03.01. Respiratory protection	-
08.03.02. Hand protection	Gloves (solvent-resistant), Butyl rubber gloves
08.03.03. Eye protection	-
08.03.04. Skin protection	light protective clothing
08.03.05. General protective and hygiene measures	Avoid contact with eyes and skin., Do not eat, drink or smoke during work time., Wash hands before breaks and after work., Remove soiled or soaked clothing immediately.

## 09. Physical and chemical properties

09.01. Appearance.	
09.01.01. Form	Thickly viscous
09.01.02. Colour	yellow-brown
09.01.03. Odour	characteristic

09.02. Safety data	
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### Changes in physical state

Boiling point, Boiling range	265	°C	1013 hPa
Flash point	113	°C	
Ignition temperature	370	°C	
self ignition			
explosion limits	n.a.	Vol. %	
Upper explosion limit	n.a.	Vol. %	
Vapour pressure	1,3	mbar	110 °C
Density	n.b.	g/cm <sup>3</sup>	
Solubility in water	immiscible	g/l	

Soluble in

	n.a.	g/l	
pH-Value			
	n.a.		
Viscosity			
	n.a.	mm <sup>2</sup> /s	

09.03. Other information ( chapter 9.)	-
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## 10. Stability and reactivity

10.01. Hazardous reactions	Reactions with various metals., Reactions with oxidising agents.
10.02. Hazardous decomposition products	No hazardous reactions when stored and handled according to prescribed instructions.
10.03. Thermal decomposition	-
10.04. Additional informations (chapter 10)	-

## 11. Toxicological information

11.01. Acute toxicity	
11.01.01. Acute oral toxicity	1,4 Butandioldimethacrylat LD-50 oral 10120 mg/kg rat (Lit.)
11.01.02. Acute dermal toxicity	-
11.01.03. Acute inhalational toxicity	-
11.02. Irritant/corrosive effects	
11.02.01. Irritant effect on skin	1,4 Butandioldimethacrylat non-irritant
11.02.02. Irritant effect on eyes	1,4 Butandioldimethacrylat non-irritant
11.03. Sensitization	Possibility of sensitization through skin contact.
11.04. Effects after repeated or prolonged exposition (subacute, subchronic, cronic)	-
11.08. Other information (chapter 11.)	-
11.09. Experiences made in practice.	-
11.10. General remarks.	-

## 12. Ecological information

12.01. Data on elimination ( persistence and degradability) :	
12.01.01. Physico-chemical eliminability	-
12.01.02. Biodegradability	-
12.02. Behaviour in environment compartments.	-
12.03. Ecotoxic effect	-
12.03.01. Fish toxicity	-
12.03.02. Daphnia toxicity	-
12.03.03. Algae toxicity	-
12.03.04. Bacteria toxicity	-
12.04. Further ecological information	Do not allow to enter soil, waterways or waste water canal.

## 13. Disposal considerations

13.01. Disposal considerations	
13.01.01. Disposal / product	-
13.01.02. Disposal / contaminated packagings.	Not cleanable packings should be disposed of in agreement with the Regional Waste Disposal Authority.
13.02. Waste code no. / name of waste (for Germany only)	07 04 10 The stated Waste Code Number(s) according to the European Waste Catalogue (EAK) is (are) considered as a recommendation. A definite setting (establishment) should be carried out in co-ordination with the Regional Waste Disposal Authority.

**14. Transport information**

14.01. Land transport ADR/RID	
14.01.01. Class	-
14.01.02. Number/letter	-
14.01.03. Hazard number (Kemler-number)	-
14.01.04. UN number	-
14.01.05. Technical name	-
14.01.06. Remarks	-

14.02. Inland waterways transport ADN/ADNR	
14.02.01. Class	-
14.02.02. Number/letter	-
14.02.03. Category	-
14.02.04. Technical name	-
14.02.05. Remarks	-

14.03. Marine transport IMDG/GGVSee	
14.03.01. Class	-
14.03.02. UN number	-
14.03.03. page	-
14.03.04. EmS	-
14.03.05. MFAG	-
14.03.06. MARINE POLLUTANT	-
14.03.07. Correct technical name	-
14.03.08. Remarks	-

14.04. Air transport ICAO/IATA	
14.04.01. Class	-
14.04.02. UN number	-
14.04.03. page	-
14.04.04. Correct technical name	-
14.04.05. Remarks	-

14.05. Other information (chapter 14.)	-
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**15. Regulatory information**

15.01. Labelling in accordance with GefStoffV/EC	
The product is classified and labelled in accordance with EC Directives.	

15.01.02. Hazard symbols		The product does not require a hazard warning label in accordance with EC directives/German regulations on dangerous substances.

15.02. Other regulations	
15.02.01. Restriction of occupation.	§ 15a GefStoffV § 22 ArbSchG §§ 4,5 MuSchRiv
15.02.02. Decree for case of interference / remarks (for Germany only).	-
15.02.03. Classification according to VbF / remarks (for Germany only).	
15.02.04. TA-Luft (Ger.)	III 2,5 10 %
15.02.05. Water Hazard Class (Ger.)	1
15.02.06. Other regulations, restrictions and prohibition regulations (for Germany only)	-

**16. Other information (chapter 16.).**

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(n.a. = Not applicable; n.b.= not determined)

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.