# Heraeus

### Page 1/7

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

Printing date 03.04.2012 Revision: 03.04.2012 1 Identification of the substance/mixture and of the company/undertaking · Product identifier · Trade name: Technobase 8000 liquid · Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the preparation Resin for the treatment of claws and extracutaneous splinting · Details of the supplier of the safety data sheet Manufacturer/Supplier: Heraeus Kulzer GmbH Grüner Weg 11, D-63450 Hanau Tel.: 06081 959-365 (Wehrheim) Informing department: Stefan Schreier Tel.: +49 6081 959-367 Fax: +49 6081 959-398 email: stefan.schreier@heraeus.com Emergency telephone number: Call "Poisining Emergency Center Berlin": +49 30 30686 790 (24 hours, support in english and german language) 2 Hazards identification Classification of the substance or mixture Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xn; Harmful R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. Xi: Irritant R36/37/38: Irritating to eyes, respiratory system and skin. Xi; Sensitising May cause sensitisation by skin contact. R43: F; Highly flammable Highly flammable. R11: R33: Danger of cumulative effects. Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. · Label elements Labelling according to EU guidelines: The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV) Code letter and hazard designation of product: Xn Harmful F Highly flammable · Hazard-determining components of labelling: methyl methacrylate 2-hydroxyethyl methacrylate N,Ń-diméthyĺ-p-toluidiné (Contd. on page 2) GB

**lerae** 

Page 2/7

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

Printing date 03.04.2012

Revision: 03.04.2012

## Trade name: Technobase 8000 liquid

(Contd. of page 1)

Risk phrases:

11 Highly flammable.

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

33 Danger of cumulative effects.

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitisation by skin contact.

#### - Safety phrases:

- 9 Keep container in a well-ventilated place.
- 16 Keep away from sources of ignition No smoking.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of water.
- 33 Take precautionary measures against static discharges.
- 36/37 Wear suitable protective clothing and gloves.

#### Other hazards

#### Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

#### 3 Composition/information on ingredients

#### · Chemical characterization: Mixtures

· Description: Product based on methacrylates

<ul> <li>Dangerous components:</li> </ul>		
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-0000	methyl methacrylate Xi R37/38; Xi R43; F R11	50-75%
CAS: 868-77-9 EINECS: 212-782-2	2-hydroxyethyl methacrylate Xi R36/38; Xi R43	25-50%
CAS: 79-39-0 EINECS: 201-202-3	methacrylamide Xn R20/22	0-5%
CAS: 99-97-8 EINECS: 202-805-4	N,N-dimethyl-p-toluidine T R23/24/25 R33-52/53	0-5%

Additional information For the wording of the listed risk phrases refer to section 16.

#### 4 First aid measures

#### · 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 instantly wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- After swallowing
- Instantly call for doctor. Product based on methacrylates
- · Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)

**lerae** 

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

Printing date 03.04.2012

Revision: 03.04.2012

# Trade name: Technobase 8000 liquid

(Contd. of page 2)

Page 3/7

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Firefighting measures

· Extinguishing media

Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. For safety reasons unsuitable extinguishing agents Water.

- Special hazards arising from the substance or mixture
- Can form explosive gas-air mixtures. Formation of toxic gases is possible during heating or in case of fire. Advice for firefighters
  - Protective equipment: Put on breathing apparatus.
- · Additional information -

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Prevent material from reaching sewage system, holes and cellars. · 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.

Do not flush with water or aqueous cleansing agents

· Reference to other sections No dangerous materials are released.

#### 7 Handling and storage

· Handling

- Precautions for safe handling
- Keep containers tightly sealed.
- Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities Storage
  - Requirements to be met by storerooms and containers: Store in cool location.
  - · Information about storage in one common storage facility: Not required.
  - · Further information about storage conditions: Store cool (not above 25 °C).

Store in cool, dry conditions in well sealed containers.

Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

#### Control parameters

· Components with critical values that require monitoring at the workplace:

#### 80-62-6 methyl methacrylate

Short-term value: 416 mg/m<sup>3</sup>, 100 ppm OFS()

Long-term value: 208 mg/m<sup>3</sup>, 50 ppm

(Contd. on page 4)

Heraeus

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

Printing date 03.04.2012

Revision: 03.04.2012

Page 4/7

# Trade name: Technobase 8000 liquid

Additional information	(Contd. of page 3) The lists that were valid during the compilation were used as basis.
<ul> <li>Exposure controls</li> </ul>	
Personal protective equip	
General protective and	d hygienic measures
Keep away from foodst	uffs, beverages and food.
Instantly remove any so	niled and impregnated garments.
Wash hands during brea	aks and at the end of the work.
Avoid contact with the e	eyes and skin.
<ul> <li>Breathing equipment:</li> </ul>	
Not neccessary with eff	ficient local exhaust. If exposition to vapours is possible, use breathing
protective mask (filter A	
· Protection of hands:	<i>,</i>
	be avoided, protective gloves are recommended to avoid possible
sensitization.	be avoided, protective groves are recommended to avoid possible
Solvent resistant gloves	N
	, s to be impermeable and resistant to the product/ the substance/ the
preparation.	natorial on consideration of the ponetration times, rates of diffusion and
	naterial on consideration of the penetration times, rates of diffusion and
the degradation	
• Material of gloves	
	e suitable gloves does not only depend on the material, but also or
	lity and varies from manufacturer to manufacturer. As the product is a
preparation of seve	eral substances, the resistance of the glove material can not be
calculated in advanc	e and has therefore to be checked prior to the application.
Penetration time of	f glove material
	bugh time has to be found out by the manufacturer of the protective
gloves and has to be	
	t contact in work areas without heightened risk of injury (e.g.
l aboratory) gloves	made of the following material are suitable:
PVA gloves	made of the following material are suitable.
	nt contact of a maximum of 15 minutes gloves made of the
following materials	
	are sunaple.
Butyl rubber, BR	(Viton)
Fluorocarbon rubber	(VILOII)
Nitrile rubber, NBR	00
Chloroprene rubber,	
Eye protection: Protec	tive goggles are recommended.
· Body protection: Light	t weight protective clothing
9 Physical and chemical	properties
· Information on basic physic	al and chemical properties
· General Information	
· Appearance:	
· Form:	Fluid
· Colour:	Colourless
· Smell:	Characteristic
	Characteriotic
<ul> <li>Change in condition</li> </ul>	
· Melting point/Melting	
· Boiling point/Boiling r	
· Flash point:	12°C
<ul> <li>Ignition temperature:</li> </ul>	430.0°℃
	(Control on page 5)

(Contd. on page 5) GB

Heraeu

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

Revision: 03.04.2012

Page 5/7

# Trade name: Technobase 8000 liquid

	(Contd. of page 4	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapour mixtures is possible.	
· Critical values for explos	ion:	
· Lower:	2.1 Vol %	
· Upper:	12.5 Vol %	
<ul> <li>Steam pressure at 20°C:</li> </ul>	47 hPa	
· Density at 20°C	0.95 g/cm³	
<ul> <li>Solubility in / Miscibility v</li> <li>Water:</li> </ul>	vith Not miscible or difficult to mix	
· Viscosity:		
<ul> <li>dynamic at 20°C:</li> </ul>	50 mPas	
· Solvent content:		
· Solids content:	3.1 %	
<ul> <li>Other information</li> </ul>	No further relevant information available.	

# 10 Stability and reactivity

· Reactivity

- · Chemical stability
- Conditions to be avoided: No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
   Incompatible materials: No further relevant information available.
   Hazardous decomposition products: None
- · Additional information:

If stored longer than recommended and/or above recommended temperature,

product may polymerize generating heat.

	te toxic	0 values that are relevant for classification:
		imethyl-p-toluidine
		500 mg/kg (rat)
		3 mg/kg (rat)
• <b>Add</b> The	on the ensitiz itional product sification oful	<b>ne skin:</b> Irritant for skin and mucous membranes. <b>The eye:</b> Irritant effect. <b>Eation:</b> Sensitization possible by skin contact. <b>toxicological information:</b> It shows the following dangers according to the calculation method of the General EC on Guidelines for Preparations as issued in the latest version:

Heraeus

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

Printing date 03.04.2012

Revision: 03.04.2012

# Trade name: Technobase 8000 liquid

(Contd. of page 5)

Page 6/7

<ul> <li>Toxicity</li> <li>Aquatic toxicity: No further relevation</li> </ul>	nt information available.						
<ul> <li>Persistence and degradability No further relevant information available.</li> <li>Behaviour in environmental systems:</li> <li>Bioaccumulative potential No further relevant information available.</li> </ul>							
						Mobility in soil No further relevant	t information available.
						· Additional ecological information:	
<ul> <li>General notes: Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil.</li> </ul>							
					· Results of PBT and vPvB assessme	ent	
• <b>PBT:</b> Not applicable.							
• vPvB: Not applicable.							
• Other adverse effects No further rele	evant information available.						
3 Disposal considerations							
· Waste treatment methods							
<ul> <li>Recommendation Small quantities can be polymerized with the matching system component(s) and the cured sol</li> </ul>							
material can be disposed of with th	ed with the matching system component(s) and the cured so						
• Waste disposal key number: 553	e regular garbage. 170						
• European waste catalogue							
18 02 05 chemicals consisting of or co	ontaining dangerous substances						
· Uncleaned packagings:	he made according to official year dations						
<ul> <li>Uncleaned packagings:</li> <li>Recommendation: Disposal must</li> </ul>	be made according to official regulations.						
• Recommendation: Disposal must	be made according to official regulations.						
<b>4 Transport information</b>	be made according to official regulations.						
• Recommendation: Disposal must 4 Transport information • UN-Number							
• Recommendation: Disposal must 4 Transport information • UN-Number • ADR, IMDG, IATA	be made according to official regulations.						
Recommendation: Disposal must <b>4 Transport information • UN-Number • ADR, IMDG, IATA • UN proper shipping name</b>	1247						
• Recommendation: Disposal must 4 Transport information • UN-Number • ADR, IMDG, IATA	1247 1247 METHYL METHACRYLATE MONOME						
Recommendation: Disposal must <b>4 Transport information •</b> UN-Number <b>•</b> ADR, IMDG, IATA <b>•</b> UN proper shipping name <b>•</b> ADR	1247 1247 METHYL METHACRYLATE MONOME STABILIZED, solution						
Recommendation: Disposal must <b>4 Transport information • UN-Number • ADR, IMDG, IATA • UN proper shipping name</b>	1247 1247 METHYL METHACRYLATE MONOMEI STABILIZED, solution METHYL METHACRYLATE MONOMEI						
Recommendation: Disposal must <b>4 Transport information</b> UN-Number     ADR, IMDG, IATA     UN proper shipping name     ADR     IMDG, IATA	1247 1247 METHYL METHACRYLATE MONOMEI STABILIZED, solution						
Recommendation: Disposal must     A Transport information     UN-Number     ADR, IMDG, IATA     UN proper shipping name     ADR     IMDG, IATA     IMDG, IATA	1247 1247 METHYL METHACRYLATE MONOME STABILIZED, solution METHYL METHACRYLATE MONOMEI						
Recommendation: Disposal must <b>4 Transport information</b> UN-Number     ADR, IMDG, IATA     UN proper shipping name     ADR     IMDG, IATA	1247 1247 METHYL METHACRYLATE MONOME STABILIZED, solution METHYL METHACRYLATE MONOMEI						
Recommendation: Disposal must     A Transport information     UN-Number     ADR, IMDG, IATA     UN proper shipping name     ADR     IMDG, IATA     IMDG, IATA	1247 1247 METHYL METHACRYLATE MONOME STABILIZED, solution METHYL METHACRYLATE MONOME						
Recommendation: Disposal must     A Transport information     UN-Number     ADR, IMDG, IATA     UN proper shipping name     ADR     IMDG, IATA     IMDG, IATA	1247 1247 METHYL METHACRYLATE MONOME STABILIZED, solution METHYL METHACRYLATE MONOMEI						
Recommendation: Disposal must     A Transport information     UN-Number     ADR, IMDG, IATA     UN proper shipping name     ADR     IMDG, IATA     IMDG, IATA	1247 1247 METHYL METHACRYLATE MONOME STABILIZED, solution METHYL METHACRYLATE MONOME						
Recommendation: Disposal must     A Transport information     UN-Number     ADR, IMDG, IATA     UN proper shipping name     ADR     IMDG, IATA     IMDG, IATA	1247 1247 METHYL METHACRYLATE MONOMEI STABILIZED, solution METHYL METHACRYLATE MONOMEI						

# Herae

Page 7/7

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

Printing date 03.04.2012

Revision: 03.04.2012

# Trade name: Technobase 8000 liquid

		(Contd. of pag
· Label	3	
· IMDG, IATA		
<b>*</b>		
· Class · Label	3 Flammable liquids. 3	
· Packing group · ADR, IMDG, IATA	11	
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
<ul> <li>Special precautions for user</li> <li>Kemler Number:</li> <li>EMS Number:</li> </ul>	Warning: Flammable liquids. 339 F-E,S-D	
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	ll of Not applicable.	
· Transport/Additional information:	-	

### 15 Regulatory information

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

#### 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 Highly flammable. R11 R20/22 Harmful by inhalation and if swallowed. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. Danger of cumulative effects. Irritating to eyes and skin. R33 R36/38 R37/38 Irritating to respiratory system and skin. May cause sensitisation by skin contact. R43 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Contact: Dr. Thiele Tel.: (+49) 6181 35-3012

email: ruediger.thiele@heraeus.com

 $\cdot$  \* Data compared to the previous version altered.