

**Trade name: Onychofix Nail mass**  
**Safety data sheet in accordance with (EG) Nr. 1907 / 2006**  
 Date of printing : 07.11.2012

**01. Identification**

Product details	
Trade name	Onychofix Nail mass
Identification of the manufacturer	
Address	ERKODENT Erich Kopp GmbH, Siemensstr. 3, D-72285 Pfalzgrafenweiler
Information provided by	Chemie
Telephone number	Tel.: (+49) (0) 7445 / 85 01 - 0, Fax: (+49) (0) 7445 / 20 92, e-mail: w.heuchert@erkodent.com
Emergency telephone number :	

**02. Hazards possibilities**

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

**03. Composition/information on ingredients**

Chemical characterization	Befestigungsmaterial für orthopädische Anwendungen; Fixing material for orthopedic applications; Matériau de fixation pour des applications orthopédique.  Urethandimethacrylat 1,4-Butandiol dimethacrylat
Substance / product identification	
Hazardous ingredients	None
Additional information	

**04. First aid measures**

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

**05. Fire-fighting measures**

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

**06. Accidental release measures**

personal precautions.	Use personal protective clothing., Keep away sources of ignition., Ensure adequate ventilation., Avoid contact with skin, eyes and clothing.
environmental precautions.	Do not discharge into the drains/surface waters/groundwater.
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.
Additional informations (chapter 6).	-

**07. Handling and storage**

Handling	
Hints on safe handling.	Observe the usual precautions for handling chemicals., Provide good ventilation of working area (local exhaust ventilation if necessary).
Hints for protection against fire and explosion.	Keep away from sources of ignition - refrain from smoking.

Storage	
Requirements for storage rooms and vessels.	Store product in closed containers.,
Hints on storage assembly.	-
Further information on storage conditions.	Keep container tightly closed, cool and dry., Protect from light., Protect from heat and direct sunlight.
Storage category	-
Storage stability	-
Recommended storage temperature	Max. + 8 °C

**08. Exposure controls/personal protection**

Additional hints on technical system design.	-
Ingredients with occupational exposure limits to be monitored	-

Personal protective equipment Personal protective equipment Persönliche Schutzausrüstung	
Respiratory protection	-
Hand protection	Gloves (solvent-resistant), Butyl rubber gloves
Eye protection	-
Skin protection	light protective clothing
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**

Appearance.	
Form	Thickly viscous
Colour	Transparent
Odour	characteristic

Safety data	
-------------	--

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	
--	------	--------------------	--

## Other information ( chapter 9.)

	-
--	---

**10. Stability and reactivity**

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

**11. Toxicologic indications**

Acute toxicity	
Acute oral toxicity	1,4 Butandioldimethacrylat LD-50 oral 10120 mg/kg rat (Lit.)
Acute dermal toxicity	-
Acute inhalational toxicity	-

Irritant/corrosive effects	
Irritant effect on skin	1,4 Butandioldimethacrylat non-irritant
Irritant effect on eyes	1,4 Butandioldimethacrylat non-irritant

Sensitization	Possibility of sensitization through skin contact.
Effects after repeated or prolonged exposition (subacute, subchronic, cronic)	-
Other information (chapter 11.)	-
Experiences made in practice.	-
General remarks.	-

**12. Environmental indications**

Data on elimination ( persistence and degradability) :	
Physico-chemical eliminability	-
Biodegradability	-

Behaviour in environment compartments.	-
--	---

Ecotoxic effect	-
Fish toxicity	-
Daphnia toxicity	-
Algae toxicity	-
Bacteria toxicity	-

Further ecological information	Do not allow to enter soil, waterways or waste water canal.
--------------------------------	---

Result of the evaluation of PBT characteristics	Do not allow to enter soil, waterways or waste water canal.
---	---

**13. Disposal considerations**

Disposal considerations	
-------------------------	--

Disposal / product	-
Disposal / contaminated packagings.	Not cleanable packagings should be disposed of in agreement with the Regional Waste Disposal Authority.

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

Land transport ADR/RID	
Class	-
Number/letter	-
Hazard number (Kemler-number)	-
UN number	-
Technical name	-
Remarks	-

Inland waterways transport ADN/ADNR	
Class	-
Number/letter	-
Category	-
Technical name	-
Remarks	-

Marine transport IMDG/GGVSee	
Class	-
UN number	-
page	-
EmS	-
MFAG	-
MARINE POLLUTANT	-
Correct technical name	-
Remarks	-

Air transport ICAO/IATA	
Class	-
UN number	-
page	-
Correct technical name	-
Remarks	-

Other information (chapter 14.)	-
---------------------------------	---

#### 15. Regulatory information

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

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

Other regulations	
Restriction of occupation.	§ 15a GefStoffV § 22 ArbStoffG §§ 4,5 MuSchRiv
Decree for case of interference / remarks (for Germany only).	-

Classification according to VbF / remarks (for Germany only).	
TA-Luft (Ger.)	III 2,5 10 %
Water Hazard Class (Ger.)	1
Other regulations, restrictions and prohibition regulations (for Germany only)	-

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

-

(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.