

Trade name: Hardener red**Safety data sheet in accordance with (EG) Nr. 1907 / 2006**

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01. Identification

Product details	
Trade name	Hardener red
Application of the material / of the formulation	

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
Emergency telephone number :	

02. Hazards possibilities

Hazard designation	Flammable Irritating to skin.
Particular information pertaining specific risk for human / environment	-

03. Composition/information on ingredients

Chemical characterization	Härter				
Substance / product identification					
Hazardous ingredients					
	CAS no.	EINECS no.	%	Hazard symbols	R phrases
Tetrakis(2-butoxyethyl)orthosilikat	18765-38-3	----	> 20	Xi	22, 34, 50/53
Additional information	-				

04. First aid measures

General Information	
First aid measures / inhalation.	Ensure supply of fresh air. In the event of symptoms take medical treatment.
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.	In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. In case of irritation consult an oculist.
First aid measures / ingestion..	Rinse out mouth and give plenty of water to drink. Do not induce vomiting - aspiration hazard. Seek medical advice immediately.
Advice to doctor	-

05. Fire-fighting measures

Suitable extinguishing media	water spray jet carbon dioxide. dry powder foam
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.	In the event of fire the following can be released: Carbon monoxide (CO) Carbon dioxide (CO ₂) Risk of formation of toxic pyrolysis products.
Special protective equipment for firefighting	Use self-contained breathing apparatus.
Additional informations (chapter 5)	-

06. Accidental release measures

personal precautions.	High risk of slipping due to leakage/spillage of product. Avoid contact with skin, eyes and clothing.
environmental precautions.	Do not allow to enter drains.

methods for cleaning up/taking up.	Take up with absorbent material (eg sand, kieselguhr, universal binder). Dispose of as prescribed.
Additional informations (chapter 6).	-

07. Handling and storage

Handling	
Hints on safe handling.	Observe the usual precautions for handling chemicals.
Hints for protection against fire and explosion.	-

Storage	
Requirements for storage rooms and vessels.	
Hints on storage assembly.	Keep away from flammable substances.
Further information on storage conditions.	Keep container tightly closed, cool and dry. < 30 °C
Storage category	-
Storage stability	-
Recommended storage temperature	-

08. Exposure controls/personal protection

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

Personal protective equipment <input type="checkbox"/> Personal protective equipment <input type="checkbox"/> Persönliche Schutzausrüstung	
Respiratory protection	-
Hand protection	Protective gloves
Eye protection	safety glasses
Skin protection	light protective clothing
General protective and hygiene measures	Avoid frequent or prolonged contact with skin.

09. Physical and chemical properties

Appearance.	
Form	Pasty
Colour	red
Odour	aromatic

Safety data	
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Changes in physical state

	-	°C	
Flash point	40	°C	
Ignition temperature	-	°C	
self ignition			
explosion limits	-		
Upper explosion limit	-		
Vapour pressure	< 2	hpa	20 °C
Density	0,95	g/cm3	
Solubility in water			
Hydrolysed		g/l	20 °C
Soluble in		g/l	
pH-Value			
Viscosity			
Konuspenetration	300	mm/l	20 °C

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

Hazardous reactions	Reactions with alkalis.
Hazardous decomposition products	Butoxyethanol
Thermal decomposition	-
Additional informations (chapter 10)	-

11. Toxicologic indications

Acute toxicity	
Acute oral toxicity	-
Acute dermal toxicity	-
Acute inhalational toxicity	-

Irritant/corrosive effects	
Irritant effect on skin	slightly irritant
Irritant effect on eyes	irritant

Sensitization	-
Effects after repeated or prolonged exposition (subacute, subchronic, cronic)	The product can cause skin and eye irritation.
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.	-
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Ecotoxic effect	
Fish toxicity	-
Daphnia toxicity	-
Algae toxicity	-
Bacteria toxicity	-

Further ecological information	Ecological data are not available. Do not allow product to reach the drainage.
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Result of the evaluation of PBT characteristics	
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13. Disposal considerations

Disposal considerations	
Disposal / product	-
Disposal / contaminated packagings.	Completely emptied packagings can be given for recycling.

Waste code no. / name of waste (for Germany only)	-
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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.)	-
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15. Regulatory information

Labelling in accordance with GefStoffV/EC	
The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.	

Hazard symbols	Xi	Irritant
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R phrases	R 10	Flammable
	R 38	Irritating to skin.

S phrases	S 37/39	Wear suitable gloves and eye/face protection.
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Other regulations	
Restriction of occupation.	-
Decree for case of interference / remarks (for Germany only).	-
Classification according to VbF / remarks (for Germany only).	Class A III
TA-Luft (Ger.)	Class III 3.1.7 > 20 %
Water Hazard Class (Ger.)	-
Other regulations, restrictions and prohibition regulations (for Germany only)	-
Securityevaluation++Stoffsicherheitsbeurteilung	

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.