

Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Hardener paste

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Condensation curing ear impression silicone

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided by / telephone Department Research & Development: Fax: +49 2303 8807-562

E-mail address of person responsible sicherheitsdatenblatt@dreve.de

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Skin Sens. 1 H317

STOT SE 2 H371

STOT RE 2 H373

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264.1	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P308+P311	IF exposed or concerned: Call a POISON CENTER or doctor.
P501.1	Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains	Diocetylacetylacetonate; Diocetyl tin oxide; Tetrakis(2-butoxyethyl)orthosilicate; Trimethoxyvinylsilane
----------	--

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****Tetrakis(2-butoxyethyl)orthosilicate**

CAS No.	18765-38-3
EINECS no.	242-560-0
Registration no.	01-2120761533-55
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2 H315 STOT RE 2 H373

Diocetyl tin oxide

CAS No.	870-08-6
EINECS no.	212-791-1
Registration no.	01-2119971268-27
Concentration	>= 10 < 25 %
Classification (Regulation (EC) No. 1272/2008)	STOT SE 2 H371

Diocetylacetylacetonate

CAS No.	54068-28-9
EINECS no.	483-270-6
Registration no.	01-0000020199-67
Concentration	>= 1 < 10 %
Classification (Regulation (EC) No. 1272/2008)	Skin Sens. 1 H317



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

STOT SE 2

H371

Trimethoxyvinylsilane

CAS No.	2768-02-7			
EINECS no.	220-449-8			
Registration no.	01-2119513215-52			
Concentration	>= 1	<	6	%
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 3		H226	
	Acute Tox. 4		H332	
	Skin Sens. 1B		H317	

cATpE	inhalative, Dust/Mist	1,5	mg/l
ATE	inhalative, Vapors	16,8	mg/l

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit

Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up rest with suitable absorbent materials. Do not pick up with the help of saw-dust or other combustible substances. Clean contaminated floors and objects thoroughly, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of as prescribed.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Avoid impact, friction and electro-static loading; risk of ignition!. Keep container tightly closed.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. No smoking. Take action to prevent static discharges. Avoid impact and friction. Use only explosion-proof equipment. Keep away from combustible material. Wear shoes with conductive soles.

7.2. Conditions for safe storage, including any incompatibilities



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Hints on storage assembly

Do not store together with foodstuffs. Do not store with strong oxidizing agents.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized. Keep container tightly closed and in a well-ventilated place. Keep in a cool place

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)**Diocetylinnacetylacetonate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,07	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,091	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	84	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,091	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	84	mg/m ³

Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Tetrakis(2-butoxyethyl)orthosilicate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	44	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	25	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10,9	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	12,5	mg/kg

Predicted No Effect Concentration (PNEC)**Diocetylinnacetylacetonate**

Type of value	PNEC	
Type	Freshwater	
Concentration	26	µg/l

Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,155	mg/kg

Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	260	µg/l

Type of value	PNEC	
Type	Marine sediment	
Concentration	0,0155	mg/kg

Type of value	PNEC	
Type	Marine	
Concentration	2,6	µg/l

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1	mg/l

Type of value	PNEC	
---------------	------	--



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Type Concentration	Soil	0,0158	mg/kg
Tetrakis(2-butoxyethyl)orthosilicate			
Type of value Type Concentration	PNEC Freshwater	10	mg/l
Type of value Type Concentration	PNEC Saltwater	1	mg/l
Type of value Type Concentration	PNEC Freshwater sediment	63,6	mg/kg
Type of value Type Concentration	PNEC Marine sediment	6,4	mg/kg
Type of value Type Concentration	PNEC Sewage treatment plant (STP)	463	mg/l
Type of value Type Concentration	PNEC Soil	0,57	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Do not smoke during work time. Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Do not eat or drink during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Do not inhale vapours; Use suitable respiratory protective device in case of insufficient ventilation

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hand protection must comply with EN 374.

Appropriate Material Butyl rubber

Eye protection

Safety glasses

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

9.1. Information on basic physical and chemical properties

Physical state	solid	
Colour	red	
Odour	characteristic	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Value	160	°C
Flammability		
evaluation	Not ignitable	
Method	UN-Method N.1, EG-A10	
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Remarks	Not applicable	
Ignition temperature		
Remarks	not determined	
Decomposition temperature		
Remarks	not determined	
pH value		
Remarks	not determined	
Viscosity		
Remarks	not determined	
Solubility(ies)		
Remarks	not determined	
Partition coefficient n-octanol/water (log value)		
Remarks	not determined	
Vapour pressure		
Remarks	not determined	
Density and/or relative density		
Value	1,02	g/cm ³
Temperature	20	
Relative vapour density		
Remarks	not determined	
9.2. Other information		
Odour threshold		
Remarks	not determined	
Evaporation rate (ether = 1) :		
Remarks	not determined	
Solubility in water		
Remarks	virtually insoluble	
Explosive properties		
evaluation	not determined	



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Oxidising properties

Remarks not determined

Other information

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Protect from heat and direct sunlight

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

Irritant gases/vapours

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Remarks Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)**Trimethoxyvinylsilane**

Species	rat				
LD50		6899	to	7012	mg/kg
Method	OECD 401				

Diocetyl tin oxide

Species	rat				
LD50	>	6000			mg/kg
Method	OECD 401				

Diocetyl tin acetylacetonate

Species	rat				
LD50		2500			mg/kg

Tetrakis(2-butoxyethyl)orthosilicate

Species	rat				
LD50	>	2000			mg/kg
Method	OECD 401				

Acute dermal toxicity

Remarks Based on available data, the classification criteria are not met.

Acute dermal toxicity (Components)



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Trimethoxyvinylsilane

Species	rabbit		
LD50	3158		mg/kg
Method	OECD 402		

Diocetyl tin oxide

Species	rat		
LD50	> 2000		mg/kg
Method	OECD 402		

Diocetyl tinacetylacetonate

Species	rat		
LD50	> 2000		mg/kg
Method	OECD 402		

Tetrakis(2-butoxyethyl)orthosilicate

Species	rat		
LD50	> 2000		mg/kg
Method	OECD 402		

Acute inhalational toxicity

ATE	4,4575		mg/l
Administration/Form	Dust/Mist		
Method	calculated value (Regulation (EC) No. 1272/2008)		
ATE	> 100		mg/l
Administration/Form	Vapors		
Method	calculated value (Regulation (EC) No. 1272/2008)		
Remarks	Based on available data, the classification criteria are not met.		

Acute inhalative toxicity (Components)**Trimethoxyvinylsilane**

Species	rat		
LC50	16,8		mg/l
Duration of exposure	4	h	
Administration/Form	Vapors		
Method	OECD 403		

Skin corrosion/irritation

evaluation	irritant
Remarks	The classification criteria are met.

Skin corrosion/irritation (Components)**Tetrakis(2-butoxyethyl)orthosilicate**

Species	rabbit		
evaluation	irritant		
Method	OECD 404		

Serious eye damage/irritation

Remarks	Based on available data, the classification criteria are not met.
---------	---

Sensitization

evaluation	May cause sensitization by skin contact.
Remarks	The classification criteria are met.

Sensitization (Components)**Diocetyl tinacetylacetonate**

Route of exposure	dermal		
Species	mouse		
evaluation	sensitizing		

Subacute, subchronic, chronic toxicity

Remarks	not determined
---------	----------------



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)**Single exposure**Remarks The classification criteria are met.
evaluation May cause damage to organs.**Repeated exposure**Remarks The classification criteria are met.
evaluation May cause damage to organs through prolonged or repeated exposure**Specific Target Organ Toxicity (STOT) (Components)****Diocetyl tin oxide****Single exposure**evaluation May cause damage to organs.
Route of exposure oral

Species

rat

NOAEL

0,3 mg/kg

Remarks

Test conducted with a similar formulation.

Diocetyl tinacetylacetonate**Single exposure**evaluation May cause damage to organs.
Route of exposure oral**Tetrakis(2-butoxyethyl)orthosilicate****Repeated exposure**evaluation May cause damage to organs through prolonged or repeated exposure
Route of exposure oral
Organs: Blood

Species

rat

25 mg/kg/d

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

No toxicological data are available.

SECTION 12: Ecological information**12.1. Toxicity**



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

General information

not determined

Fish toxicity (Components)**Trimethoxyvinylsilane**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	191		mg/l
Duration of exposure	96	h	
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Diocetyl tin oxide

Species	zebra fish (<i>Brachydanio rerio</i>)		
LC50	> 0,09		mg/l
Duration of exposure	96	h	
Method	OECD 203		
Remarks	The product was tested above its maximum solubility.		

Diocetyl tin acetate

LC50	86		mg/l
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Tetrakis(2-butoxyethyl)orthosilicate

Species	zebra fish (<i>Brachydanio rerio</i>)		
LC50	> 201		mg/l
Duration of exposure	7	d	
Method	Regulation (EC) No. 440/2008, Annex, C.1		
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Daphnia toxicity (Components)**Trimethoxyvinylsilane**

Species	Daphnia magna		
EC50	> 168,7		mg/l
Duration of exposure	48	h	
Method	Regulation (EC) No. 440/2008, Annex, C.2		
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Trimethoxyvinylsilane

Species	Daphnia magna		
NOEC	28,1		mg/l
Duration of exposure	21	d	
Method	OECD 211		
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.		

Diocetyl tin oxide

Species	Daphnia magna		
EC50	> 0,21		mg/l
Duration of exposure	48	h	
Method	OECD 202		
Remarks	The product was tested above its maximum solubility.		

Diocetyl tin oxide

Species	Daphnia magna		
NOELR	>= 4		µg/l
Duration of exposure	21	d	
Method	OECD 211		
Remarks	The product was tested above its maximum solubility.		



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Diocetylinnacetylacetonate

Species	Daphnia magna	
EC50	58,6	mg/l
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.	

Tetrakis(2-butoxyethyl)orthosilicate

Species	Daphnia magna	
EC50	> 90	mg/l
Duration of exposure	48	h
Method	OECD 202	
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.	

Algae toxicity (Components)**Trimethoxyvinylsilane**

Species	Pseudokirchneriella subcapitata	
EC50	> 89	mg/l
Duration of exposure	72	h
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.	

Diocetyl tin oxide

Species	Desmodesmus subspicatus	
EC50	> 0,002	mg/l
Duration of exposure	72	h
Method	OECD 201	
Remarks	The product was tested above its maximum solubility.	

Diocetylinnacetylacetonate

Species	Scenedesmus subspicatus	
EC50	300	mg/l
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.	

Tetrakis(2-butoxyethyl)orthosilicate

Species	Desmodesmus subspicatus	
EC50	> 161	mg/l
Duration of exposure	72	h
Method	Regulation (EC) No. 440/2008, Annex, C.3	
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.	

Bacteria toxicity (Components)**Trimethoxyvinylsilane**

EC50	> 100	mg/l
Duration of exposure	3	h
Method	OECD 209	
Remarks	Test conducted with a similar formulation.	

Diocetyl tin oxide

Species	activated sludge	
NOEC	1000	mg/l
Duration of exposure	3	h
Method	OECD 209	
Remarks	The product was tested above its maximum solubility.	

Diocetylinnacetylacetonate

Species	activated sludge	
NOEC	100	mg/l
Duration of exposure	3	h



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

Method	OECD 209
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.

Tetrakis(2-butoxyethyl)orthosilicate

Species	activated sludge
EC50	> 100 mg/l
Duration of exposure	3 h
Method	OECD 209
Remarks	Test conducted with a similar formulation.

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Diocetyl tin oxide**

Value	1,9	%
Duration of test evaluation	28 d	sparingly degradable

Ready degradability (Components)**Tetrakis(2-butoxyethyl)orthosilicate**

Value	83 to 98	%
Duration of test	28 d	
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.	

Trimethoxyvinylsilane

Value	51	%
Duration of test	28 d	
Remarks	The product is unstable in water. The information on elimination relates to the hydrolysis products.	

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**Trimethoxyvinylsilane**

log Pow	1,1
Temperature	20 °C

Tetrakis(2-butoxyethyl)orthosilicate

log Pow	4,3
Temperature	20 °C

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

Results of PBT and vPvB assessment



Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Must not be disposed together with household garbage.
Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)		-	-
Label			
14.4. Packing group		-	-

SECTION 15: Regulatory information**15.2. Chemical safety assessment**

For this preparation a chemical safety assessment has not been carried out.

Trade name: Hardener paste

Substance number: 71000

Version: 4 / GB

Date revised: 27.06.2023

Replaces Version: 3 / GB

Print date: 27.06.2023

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 2	H371	Calculation method
STOT RE 2	H373	Calculation method

Hazard statements listed in Chapter 2/3

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Flam. Liq. 3	Flammable liquid, Category 3
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 2	Specific target organ toxicity - single exposure, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.