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Revision: 08.02.2023

Tel.: +49 (0)800 4372522

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

Printing date 08.02.2023

Version number 5 (replaces version 4)

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

- · 1.1 Product identifier
 - · Trade name: Xantopren Function base
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Dental impression material
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

· Informing department: E-Mail: msds@kulzer-dental.com

· 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the GB CLP regulation.

· Additional information:

Since the product is a medical device in the sense of Directive 93/42/EEC (MDD) or the Regulation (EU) 2017/745 (MDR), that is intended for the end user and is used invasively or with physical contact, it is exempted from the classification and labeling obligation according to Regulation (EC) 1272/2008.

- · 2.2 Label elements
 - · Labelling according to Regulation (EC) No 1272/2008 Void
 - · Hazard pictograms Void
 - · **Signal word** Void
 - · Hazard statements Void
 - Additional information: see 2.1
- · 2.3 Other hazards -
 - Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
 - · Description: -

· Dangerous components:		
CAS: 14464-46-1	Cristobalite STOT RE 1, H372	25-50%
CAS: 9005-25-8 EINECS: 232-679-6	Starch substance with a Community workplace exposure limit	10-25%
CAS: 556-67-2 EINECS: 209-136-7 Reg.nr.: 01-2119529238-36-xxx	octamethylcyclotetrasiloxane Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10) PBT; vPvB	≥0.0025-<0.025%

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

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
 - · After inhalation Supply fresh air; consult doctor in case of symptoms.
 - · After skin contact If skin irritation continues, consult a doctor.
 - After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

Rinse opened eye for several minutes under running water. Then consult doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
 - Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

- · 5.3 Advice for firefighters
 - · Protective equipment: No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions:

No special measures required.

Prevent material from reaching sewage system, holes and cellars.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

6.4 Reference to other sections

No dangerous materials are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

-

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special measures required.
 - Information about protection against explosions and fires: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
 - Storage
 - Requirements to be met by storerooms and containers: No special requirements.

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- Information about storage in one common storage facility: Not required.
 Further information about storage conditions: None.
 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection
· 8.1 Control parameters
· Components with critical values that require monitoring at the workplace:
9005-25-8 Starch

WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *total inhalable **respirable
·DNELs	

540-97-6 L	Dodecamethylcyclohexasiloxane	
Oral	general population, acute, systemic	1.7 mg/Kg (not defined)
	general population, long term, systemic	1.7 mg/Kg (not defined)
Inhalative	worker industrial, acute, local	6.1 mg/m3 (not defined)
	worker industrial, long term, systemic	11 mg/m3 (not defined)
	worker industrial, long term, local	1.22 mg/m3 (not defined)
	general population, acute, local	1.5 mg/m3 (not defined)
	general population, long term, systemic	2.7 mg/m3 (not defined)
	general population, long term, local	0.3 mg/m3 (not defined)

541-02-6 Decamethylcyclopentasiloxane				
Oral	general population, long term, systemic	5 mg/Kg (not defined)		
Inhalative	worker industrial, long term, systemic	97.3 mg/m3 (not defined)		
	worker industrial, long term, local	24.2 mg/m3 (not defined)		
	general population, long term, systemic	17.3 mg/m3 (not defined)		
	general population, long term, local	4 3 ma/m3 (not defined)		

556-67-2 d	556-67-2 octamethylcyclotetrasiloxane				
Oral	general population, long term, systemic	3.7 mg/Kg (not defined)			
Inhalative	worker industrial, long term, systemic	73 mg/m3 (not defined)			
	worker industrial, long term, local	73 mg/m3 (not defined)			
	general population, long term, systemic	13 mg/m3 (not defined)			
	general population, long term, local	13 mg/m3 (not defined)			

J 11 , J	,
· PNECs	
540-97-6 Dodecamethylcyclohexa	nsiloxane
sewage treatment plant	1 mg/l (not defined)
sediment, dry weight, freshwater	13 mg/Kg (not defined)
sediment, dry weight, marine water	1.3 mg/Kg (not defined)
541-02-6 Decamethylcyclopentas	iloxane
freshwater	0.0012 mg/l (not defined)
marine water	0.00012 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	11 mg/Kg (not defined)
sediment, dry weight, marine water	1.1 mg/Kg (not defined)

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freshwater 0.0015 mg/l (not defined) marine water 0.00015 mg/l (not defined) sewage treatment plant 10 mg/l (not defined) 3 mg/Kg (not defined) sediment, dry weight, freshwater sediment, dry weight, marine water 0.3 mg/Kg (not defined)

· Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Wash hands during breaks and at the end of the work.

- · Breathing equipment: Not required.
- Hand protection

Check protective gloves prior to each use for their proper condition.

recommended

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Fluid

>100 °C

Butyl rubber, BR Nitrile rubber, NBR

- · Eye/face protection Safety glasses · Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

SADT рΗ

· Physical state

· Colour: Light vellow · Smell: Odourless Not determined. Odour threshold:

• Melting point/freezing point: Not determined

Boiling point or initial boiling point and boiling range

· Flammability

· Lower and upper explosion limit Lower:

Upper: Flash point: Decomposition temperature: Not applicable. Not determined.

Not determined. >100 °C

Not determined.

Not determined.

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· Viscosity:

Kinematic viscosity dvnamic:

Not determined. Not determined.

Solubility

Not miscible or difficult to mix

Water: Partition coefficient n-octanol/water (log

value)

Not determined.

Steam pressure:

Density and/or relative density

Not determined.

Density at 20 °C 1.12-1.52 g/cm3 · Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

No further relevant information available.

Appearance:

. Form:

Pasty

55.4 %

Important information on protection of health and environment, and on safety.

· Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive. Not determined.

· Solvent content:

Solids content:

Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

Void · Explosives · Flammable gases Void Void Aerosols Oxidising gases Gases under pressure Void Void Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void Pyrophoric solids Void · Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void Void Oxidising solids · Organic peroxides Void Corrosive to metals Void

SECTION 10: Stability and reactivity

· Desensitised explosives

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
 - Conditions to be avoided: No decomposition if used and stored according to specifications.

Void

- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.

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- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
 - Additional information: -

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:		
540-97-6 Dodecamethylcyclohexasiloxane		
Oral	LD50	>2000 mg/kg (rat) (OECD 423)
Dermal		>2000 mg/kg (rat) (OECD 402)
541-02-6 I	Decameth	ylcyclopentasiloxane
Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rab) (OECD 402)
556-67-2 octamethylcyclotetrasiloxane		
Oral	LD50	>4800 mg/kg (rat) (OECD 401)
Dermal	LD50	>2375 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	36 mg/l (rat) (OECD 403)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity

540-97-6 Dodecamethylcyclohexasiloxane

Oral NOAEL(C) 1000 mg/kg (rat)

- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
 - Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity	y
· Aquatic t	toxicity:
	decamethylcyclohexasiloxane
NOEC / 91d	≥0.014 mg/l (fish) (OECD 210)
NOEC / 21d	0.0046 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>0.002 mg/l (algae) (OECD 201)
NOEC / 72h	≥0.002 mg/l (algae) (OECD 201)
541-02-6 De	camethylcyclopentasiloxane
EC50/21d	>0.015 mg/L (daphnia) (OECD 211)
EC50/48h	>0.0029 mg/l (daphnia) (OECD 202)
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LC50/96h	>0.016 mg/l (fish	, ,		
	≥0.014 mg/l (fish	, ,		
		aphnia) (OECD 211)		
NOEC / 96h	≥0.012 mg/l (alg	, ,		
	≥0.016 mg/l (fish	, ,		
NOEC / 48h	,	aphnia) (OECD 202)		
EC50/96h	, ,	gae) (OECD 201)		
	tamethylcyclotet			
EC50/21d	_ , ,	phnia) (EPA OTS 797.1330)		
EC50/48h	• , ,	ohnia) (EPA OTS 797.1300)		
LC50/96h	>0.022 mg/l (fish) (EPA OTS 797.1400)		
NOEC / 91d	≥0.0044 mg/l (fis	sh)		
NOEC / 21d	≥0.015 mg/l (dap	ohnia) (EPA OTS 797.1330)		
NOEC / 96h	NOEC / 96h <0.022 mg/l (algae) (EPA OTS 797.1050)			
	≥0.022 mg/l (fish) (EPA OTS 797.1400)		
NOEC / 48h	≥0.015 mg/l (dap	ohnia) (EPA OTS 797.1300)		
ErC50/ 96h	C50/ 96h >0.022 mg/L (algae) (EPA OTS 797.1050)			
12.2 Persistence and degradability				
540-97-6 Do	decamethylcyclo	hexasiloxane		
Biodegradation 4.47 % /28d (not defined) (OECD 310)				
541-02-6 Decamethylcyclopentasiloxane				
	•	not defined) (OECD 310)		
	tamethylcyclotet			
Biodegradati	on 3.7 % /29d (no	ot defined) (OECD 310)		
· 12.3 Bioacci	umulative potent	ial		
	decamethylcyclo			
		1160 (not defined)		
541-02-6 Decamethylcyclopentasiloxane				
Bloconcentra	ation factor (BCF)	` ′		
		7060 (not defined)		
	tamethylcyclotet			
Bloconcentra	ation factor (BCF)	12400 (not defined)		

- 12.4 Mobility in soil No further relevant information available.
 12.5 Results of PBT and vPvB assessment
 PBT: Not applicable.
- - · vPvB: Not applicable.

• 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
 - Additional ecological information:

Do not allow product to reach ground water, water bodies or sewage system. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

- Uncleaned packagings:
 - · Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

SECTION 14: Transport information · 14.1 UN number or ID number ADR, IMDG, IATA Void · 14.2 UN proper shipping name · ADR, IMDG, IATA Void · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA Class Void · 14.4 Packing group ADR, IMĎĞ. IATA Void · 14.5 Environmental hazards: Marine pollutant: No · 14.6 Special precautions for user Not applicable. · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: UN "Model Regulation": Void

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Directive 2012/18/EU
 - · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

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· Relevant phrases

H226 Flammable liquid and vapour.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement

Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals GHS: Globally Harmonised System of Classification and Labelling of Chemical EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3
Repr. 2: Reproductive toxicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
* * Data compared to the previous version altered.



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Tel.: +49 (0)800 4372522

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Printing date 17.11.2022

Version number 4 (replaces version 3)

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

- · 1.1 Product identifier
 - · Trade name: Xantopren function Hardener 1 Plus
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Activator for dental impression material
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Informing department: E-Mail: msds@kulzer-dental.com

· 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
 - · Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms





GHS02 GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid tetraethyl orthosilicate

· Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smokina.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

· 2.3 Other hazards -

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Trade name: Xantopren function Hardener 1 Plus

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· Results of PBT and vPvB assessment

· PBT: Not applicable. vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
 - · Description: -

 Dangerous components: 		
CAS: 78-10-4	tetraethyl orthosilicate	50-75%
EINECS: 201-083-8	Flam. Lig. 3, H226	
Reg.nr.: 01-2119496195-28- 0003	Acute Tóx. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
ELINCS: 477-470-2 Reg.nr.: 01-0000019944-59-	Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid	25-50%
XXXX	Flam. Liq. 2, H225 Skin Sens. 1B, H317	

[·] Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
 - After inhalation Supply fresh air; consult doctor in case of symptoms.
 - After skin contact If skin irritation continues, consult a doctor.
 - · After eve contact

Rinse opened eye for several minutes under running water. Then consult doctor.

· After swallowing

Rinse out mouth and then drink plenty of water.

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

- 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 - Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 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.

- · 5.3 Advice for firefighters
 - · Protective equipment: Put on breathing apparatus.
 - · Additional information -

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

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Trade name: Xantopren function Hardener 1 Plus

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Do not allow to enter the ground/soil.

Prevent material from reaching sewage system, holes and cellars.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

Send for recovery or disposal in suitable containers.

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Wear protective equipment. Keep unprotected persons away.

Please observe the additional instructions in the product's instructions for use.

Keep containers tightly sealed. Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

· 7.2 Conditions for safe storage, including any incompatibilities

- - · Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions:

Store container in a well ventilated position.

Protect from heat and direct sunlight.

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

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

 CO	mp	on	ents	WILL	n c	ritical	vaiue	es tnat	requii	e moi	nitoring	j at	tne v	vork	orace:
 - 4 -		-		-			-								

78-10-4 tetraethyl orthosilicate

Long-term value: 44 mg/m³, 5 ppm WEL (Great Britain) IOELV (European Union) Long-term value: 44 mg/m³, 5 ppm

· DNELs

78-10-4 tetraethyl orthosilicate

Dermal	worker industrial, acute, systemic	12.1 mg/Kg/d (human)
	worker industrial, long term, systemic	12.1 mg/Kg/d (human)
	general population, acute, systemic	8.4 mg/Kg/d (human)
	general population, long term, systemic	8.4 mg/Kg/d (human)
Inhalative	worker industrial, acute, systemic	85 mg/m3 (human)
	worker industrial, long term, systemic	85 mg/m3 (human)
	general population, long term, systemic	25 mg/m3 (human)

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Trade name: Xantopren function Hardener 1 Plus

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Sulfonic a	acids, C10-21-alkane,	Ph esters		
Oral	general population, ac	ute, systemic	26.37 mg/Kg (not defined)	
	general population, lor	ng term, systemic	0.47 mg/Kg (not defined)	
Dermal	worker industrial, acute	e, systemic	52.75 mg/Kg/d (not defined)	
	worker industrial, long	term, systemic	0.93 mg/Kg/d (not defined)	
	general population, ac	ute, systemic	26.37 mg/Kg/d (not defined)	
	general population, lor	ng term, systemic	0.47 mg/Kg/d (not defined)	
Inhalative	worker industrial, acute	e, systemic	84.8 mg/m3 (not defined)	
	worker industrial, long	term, systemic	6.5 mg/m3 (not defined)	
	general population, ac	ute, systemic	21.28 mg/m3 (not defined)	
	general population, long term, systemic		1.64 mg/m3 (not defined)	
			mg/m3 (rat)	
· PNE	PNECs			
78-10-4 te	traethyl orthosilicate			
freshwater	•	0.192 mg/l (aqua)	
marine wa	ter	0.0192 mg/l (aqu	a)	

• Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

soil, dry weight

intermediate water release

- Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment

10 mg/l (aqua)

0.05 mg/Kg (soil)

General protective and hygienic measures

sediment, dry weight, freshwater 0.18 mg/Kg (sediment)

Avoid contact with the eyes.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Breathing equipment: Not required.
- · Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization

Check protective gloves prior to each use for their proper condition.

recommended

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

Eye/face protection Tightly sealed safety glasses.

Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

· Physical state Fluid · Colour: Red · Smell: Aromatic

Odour threshold: Not determined. Melting point/freezing point:
Boiling point or initial boiling point and Not determined

110 °C boiling range

· Flammability Not applicable.

· Lower and upper explosion limit

· Lower: 1.3 Vol % · Upper: 23 Vol % >48 °C · Flash point: 234 °C Ignition temperature:

Decomposition temperature: Not determined.

SADT

· pH Not determined.

· Viscosity:

Kinematic viscosity Not determined. · dynamic: Not determined.

Solubility

Water: Not miscible or difficult to mix

Partition coefficient n-octanol/water (log

Not determined. value)

Steam pressure at 20 °C: 1.7 hPa

Density and/or relative density

Density at 20 °C 1.03 g/cm3 Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information No further relevant information available.

Appearance:

Form: Liquid

Important information on protection of health and environment, and on safety.

· Self-inflammability: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures is possible.

· Solvent content:

Solids content: 12.9 %

Change in condition Evaporation rate Not determined.

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· Information with regard to physical hazard		
classes		
· Explosives	Void	
· Flammable gases	Void	
· Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
· Flammable liquids		
Flammable liquid and vapour.		
· Flammable solids	Void	
· Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

SECTION 10: Stability and reactivity

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

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
 Acute toxicity Based on available data, the classification criteria are not met.
 - · LD/LC50 values that are relevant for classification:

78-10-4 tetraethyl orthosilicate

Oral LD50 6,270 mg/kg (rat)
Dermal LD50 5,878 mg/kg (can)

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid

Oral LD50 >2,000 mg/kg (not defined)

Sulfonic acids, C10-21-alkane, Ph esters

Oral LD50 >15,900 mg/kg (rat)
Dermal LD50 >2,000 mg/kg (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation

Causes serious eye irritation.

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Respiratory or skin sensitisation

Trade name: Xantopren function Hardener 1 Plus

- May cause an allergic skin reaction.

 Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity

Sulfonic acids, C10-21-alkane, Ph esters

Oral NOAEL(C) 3,000 mg/kg (rat)

- · STOT-single exposure
- May cause respiratory irritation.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
 - · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

- · 12.1 Toxicity
 - · Aquatic toxicity:

78-10-4 tetraethyl orthosilicate

EC50/48h >844 mg/l (daphnia)

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid

EC50/72h >100 mg/l (algae)

EC50/48h >100 mg/l (daphnia) (OECD 201)

· 12.2 Persistence and degradability

Sulfonic acids, C10-21-alkane, Ph esters

Biodegradation 61 % (not defined)

- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
 - PBT: Not applicable.
 - vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
 - · Additional ecological information:
 - · General notes: Avoid transfer into the environment.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

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Uncleaned packagings:
 Recommendation:
 Disposal must be made according to official regulations.
 Non contaminated packagings can be used for recycling.

14.1 UN number or ID number · ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name · ADR · IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (Reaction product of tetraethoxysilane, alkylate polysilicate, dioctyltin oxide and benzoic action TETRAETHYL SILICATE) FLAMMABLE LIQUID, N.O.S. (Reaction product of tetraethoxysilane, alkylated polysilicate dioctyltin oxide and benzoic acid, TETRAETHY SILICATE)
14.3 Transport hazard class(es)	
· Class	3 (F1) Flammable liquids.
· Label · IMDG, IATA	3
IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
14.4 Packing group · ADR, IMDG, IATA	III
14.5 Environmental hazards: • Marine pollutant:	No
14.6 Special precautions for user · Kemler Number: · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E, <u>S-E</u> A
14.7 Maritime transport in bulk accord	ing to Not applicable.



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· ADR

Limited quantities (LQ)

Excepted quantities (ÉQ) Code: E1

Maximum net quantity per inner packaging:

Maximum net quantity per outer packaging:

1000 ml

· Transport category 3 Tunnel restriction code D/E

Limited quantities (LQ)

Excepted quantities (ÉQ) Code: E1

Maximum net quantity per inner packaging:

5L

Maximum net quantity per outer packaging:

1000 ml

UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (REACTION PRODUCT OF TETRAETHOXYSILANE, ALKYLATED POLYSILICATE, DIOCTYLTIN OXIDE AND BENZOIC ACID, TETRAETHYL SILICATE), 3, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Directive 2012/18/EU
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Abbreviations and acronyms:

SADT: Self Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

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PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids — Category 2
Flam. Liq. 3: Flammable liquids — Category 3
Acute Tox. 4: Acute toxicity — Category 4
Eye Irrit. 2: Serious eye damage/eye irritation — Category 2
Skin Sens. 1: Skin sensitisation — Category 1
Skin Sens. 1B: Skin sensitisation — Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) — Category 3
** Data compared to the previous version altered.



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

- · 1.1 Product identifier
 - Trade name: Xantopren function Hardener 2 Plus
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Activator for dental impression material
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)800 4372522

- · Informing department: E-Mail: msds@kulzer-dental.com
- · 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008

Flam. Lig. 3 H226 Flammable liquid and vapour.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms





GHS02 GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid

Hazard statements

H226 Flammable liquid and vapour. H317 May cause an allergic skin reaction.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray. P261

P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water [or shower].

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

· 2.3 Other hazards -

- Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.

GB



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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

Description: Activator for use with condensation curing silicone-based impression materials

Dangerous components:

ELINCS: 477-470-2 Reg.nr.: 01-0000019944-59-XXXX

Reaction product of tetraethoxysilane, alkylated 10-25% polysilicate, dioctyltin oxide and benzoic acid Flam. Liq. 2, H225 Skin Sens. 1B, H317

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

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
 - After inhalation Supply fresh air; consult doctor in case of symptoms.
 - After skin contact If skin irritation continues, consult a doctor.
 - After eve contact

Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

Seek immediate medical advice.

- 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
 - Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 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.

- · 5.3 Advice for firefighters
 - **Protective equipment:** No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil.

Prevent material from reaching sewage system, holes and cellars.

6.3 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.

Send for recovery or disposal in suitable containers.

6.4 Reference to other sections

See Section 7 for information on safe handling

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See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

-

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear protective equipment. Keep unprotected persons away.

Please observe the additional instructions in the product's instructions for use.

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.

- · 7.2 Conditions for safe storage, including any incompatibilities
 - · Storage
 - Requirements to be met by storerooms and containers: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Not required.

· DNI	ELs						
110-27-0 i	110-27-0 isopropyl myristate						
Oral	general population, long term, systemic	1.6 mg/Kg (not defined)					
Dermal	worker industrial, long term, systemic	33 mg/Kg/d (not defined)					
	general population, long term, systemic	16 mg/Kg/d (not defined)					
Inhalative	worker industrial, long term, systemic	23.5 mg/m3 (not defined)					
	general population, long term, systemic	5.79 mg/m3 (not defined)					

PNECs

110-27-0 isopropyl myristate

sediment, dry weight, freshwater sediment, dry weight, marine water soil, dry weight 1.44 mg/Kg (sediment) 20 mg/Kg (soil)

Additional information: The lists that were valid during the compilation were used as basis.

- · 8.2 Exposure controls
 - · Appropriate engineering controls No further data; see item 7.
 - Individual protection measures, such as personal protective equipment

General protective and hygienic measures

Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Do not inhale gases / fumes / aerosols.

· Breathing equipment: Not required.

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· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

If skin contact cannot be avoided, protective gloves are recommended to avoid possible

Check protective gloves prior to each use for their proper condition. recommended

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR Nitrile rubber, NBR

- Eye/face protection Tightly sealed safety glasses.
- · Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

Fluid · Physical state · Colour: Light yellow · Smell: Aromatic

Odour threshold: Not determined. • Melting point/freezing point: Not determined

Boiling point or initial boiling point and >110 °C boiling range

· Flammability Not applicable. · Lower and upper explosion limit

Lower: Not determined. Upper: Not determined.

>48 °C · Flash point: · Decomposition temperature: Not determined.

·SADT

pН

Not determined. Viscosity: Kinematic viscosity Not determined.

Not determined. dynamic: Solubility

Not miscible or difficult to mix Water:

· Partition coefficient n-octanol/water (log

Not determined.

· Steam pressure: Not determined. · Density and/or relative density

 Density at 20 °C 0.92 g/cm3

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· Relative density	Not determined.
· Vapour density	Not determined.

• 9.2 Other information No further relevant information available.

· Appearance:

Form: Liquid

Important information on protection of health and environment, and on safety.

· Self-inflammability: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of

explosive air/vapour mixtures is possible.

· Solvent content:

· Solids content:

9.9 %

Change in condition

· Evaporation rate Not determined.

· Information with	regard to	physical	hazard
rlasses			

145565	
· Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	
Flammable liquid and vapour.	
Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
· Oxidising liquids	Void
Oxidising solids	Void
· Organic peroxides	Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
 - · Conditions to be avoided: No decomposition if used and stored according to specifications.

Void

Void

- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
 - · Additional information: -

· Corrosive to metals

· Desensitised explosives

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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· LD/LC50 values that are relevant for classification:

110-27-0 isopropyl myristate

Oral LD50 >10000 mg/kg (rat)
Dermal LD50 >5000 mg/kg (rabbit)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
 - Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

110-27-0 isopropyl myristate

EC50/48h >100 mg/l (daphnia) (OECD 202) IC 50/ 72h >100 mg/l (algae) (OECD 201)

LC50 / 96h 8400 mg/l (fish)

EC0 / 30 min >10000 mg/l (bacteria) (OECD 209)

Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid

EC50/72h >100 mg/l (algae)

EC50/48h >100 mg/l (daphnia) (OECD 201)

- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
 - Additional ecological information:
 - General notes: Avoid transfer into the environment.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Disposal must be made according to official regulations.

Uncleaned packagings:
 Recommendation:
 Disposal must be made according to official regulations.
 Non contaminated packagings can be used for recycling.

14.1 UN number or ID number · ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name · ADR · IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (Reaction product of tetraethoxysilane, alkylate polysilicate, dioctyltin oxide and benzoic acid) FLAMMABLE LIQUID, N.O.S. (Reaction product of tetraethoxysilane, alkylated polysilicate dioctyltin oxide and benzoic acid)
14.3 Transport hazard class(es)	
· ADR	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
14.4 Packing group · ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user Kemler Number:	Warning: Flammable liquids.
· Kemler Number: · EMS Number:	30 F-E,S-E
Stowage Category	A A
14.7 Maritime transport in bulk according IMO instruments	ng to Not applicable.
· Transport/Additional information:	-
· ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging
	(Contd. on page



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

Printing date 17.11.2022 Version number 4 (replaces version 3) Revision: 17.11.2022

Trade name: Xantopren function Hardener 2 Plus

(Contd. of page 7) Maximum net quantity per outer packaging: 1000 ml · Transport category 3 · Tunnel restriction code D/E Limited quantities (LQ) Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: Maximum net quantity per outer packaging: 1000 ml · UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (REACTION PRODUCT OF TETRAETHOXYSILANE, ALKYLATED POLYSILICATE, DIOCTYLTIN OXIDE AND BENZOIC ACID), 3, III

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Directive 2012/18/EU
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement

ADR: Accord relatif au transport international des marchandises dangere Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

very Persistent, blockclimitative and Toxic very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B

* Data compared to the previous version altered.