

Page 1/9

Revision: 06.04.2023

Tel.: +49 (0)800 4372522

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

Printing date 06.04.2023

undertaking

Version number 5 (replaces version 4)

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

- · 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

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

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.

(Contd. on page 2)



Page 2/9

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

(Contd. of page 1)

Revision: 06.04.2023

## Trade name: Xantopren function Hardener 1 Plus

· After skin contact If skin irritation continues, consult a doctor.

After eye 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. 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.

(Contd. on page 3)



Page 3/9

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

Version number 5 (replaces version 4) Printing date 06.04.2023 Revision: 06.04.2023

## Trade name: Xantopren function Hardener 1 Plus

(Contd. of page 2)

- · 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

· Comp	onents with cri	tical values that require	monitoring at the workplace:	
	traethyl orthos			
		Long-term value: 44 mg/	Long-term value: 44 mg/m³, 5 ppm	
IOELV (European Union) Long-term value: 44 mg		Long-term value: 44 mg/	/m³, 5 ppm	
· DNI	ELs			
78-10-4 te	traethyl orthos	silicate		
Dermal		al, acute, systemic	12.1 mg/Kg/d (human)	
	worker industri	al, long term, systemic	12.1 mg/Kg/d (human)	
	general popula	tion, acute, systemic	8.4 mg/Kg/d (human)	
	general popula	tion, long term, systemic	8.4 mg/Kg/d (human)	
Inhalative	worker industri	al, acute, systemic	85 mg/m3 (human)	
	worker industri	al, long term, systemic	85 mg/m3 (human)	
general populatio		tion, long term, systemic	25 mg/m3 (human)	
Sulfonic a	acids, C10-21-a	alkane, Ph esters		
Oral	general popula	tion, acute, systemic	26.37 mg/Kg (not defined)	
	general popula	tion, long term, systemic	,	
Dermal	worker industri	al, acute, systemic	52.75 mg/Kg/d (not defined)	
	worker industri	al, long term, systemic	0.93 mg/Kg/d (not defined)	
	general popula	tion, acute, systemic	26.37 mg/Kg/d (not defined)	
	general popula	tion, long term, systemic	0.47 mg/Kg/d (not defined)	
Inhalative	worker industri	al, acute, systemic	84.8 mg/m3 (not defined)	
		al, long term, systemic	6.5 mg/m3 (not defined)	
		tion, acute, systemic	21.28 mg/m3 (not defined)	
	general popula	tion, long term, systemic	1.64 mg/m3 (not defined)	
			mg/m3 (rat)	

#### PNECs

78-10-4 tetraethyl orthosilicate

freshwater 0.192 mg/l (aqua) marine water 0.0192 mg/l (aqua) intermediate water release 10 mg/l (aqua) sediment, dry weight, freshwater 0.18 mg/Kg (sediment) soil, dry weight 0.05 mg/Kg (soil)

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



Page 4/9

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

## Trade name: Xantopren function Hardener 1 Plus

(Contd. of page 3)

Revision: 06.04.2023

#### · 8.2 Exposure controls

· Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures

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.

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 stateColour:Smell:FluidRedAromatic

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

· Boiling point or initial boiling point and

boiling range 110 °C
• Flammability Not applicable.

· Lower and upper explosion limit

Lower:
Upper:
Start Upper:
Flash point:
Auto-ignition temperature:
1.3 Vol %
23 Vol %
>48 °C
234 °C

Decomposition temperature: Not determined.

(Contd. on page 5)



Page 5/9

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

Printing date 06.04.2023 Version number 5 (replaces version 4) Revision: 06.04.2023

## Trade name: Xantopren function Hardener 1 Plus

(Contd. of page 4)

·SADT

pН

. Viscositv:

Kinematic viscosity

· Kinematic viscosity

· dynamic:

Solubility

Water:

· Partition coefficient n-octanol/water (log

Steam pressure at 20 °C:

Vapour pressure:

Density and/or relative density

Density at 20 °C Relative density

· Vapour density

1.03 g/cm<sup>3</sup> Not determined.

12.9 %

1.7 hPa

Not determined.

Not determined.

Not determined.

Not determined.

Not determined. No further relevant information available.

Not miscible or difficult to mix

· 9.2 Other information

· Appearance:

Form:

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

· Self-inflammability: Product is not selfigniting.

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

Liquid

explosive air/vapour mixtures is possible.

· Solvent content:

· Explosives

Solids content:

Change in condition

Evaporation rate Not determined.

· Information with regard to physical hazard

Flammable gases · Aerosols · Oxidising gases · Gases under pressure · Flammable liquids Flammable solids · Self-reactive substances and mixtures · Pyrophoric liquids Pyrophoric solids

· Self-heating substances and mixtures · Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids

 Oxidising solids Organic peroxides · Corrosive to metals

· Desensitised explosives

Void Void Void

Void Void Void Void

Void Void Void Void

Void Void

Void Void Void Void

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

(Contd. on page 6)



Page 6/9

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

## Trade name: Xantopren function Hardener 1 Plus

(Contd. of page 5)

Revision: 06.04.2023

- · 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.

#### 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 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

## Sulfonic acids, C10-21-alkane, Ph esters

Oral NOAEL(C) 3,000 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
  - · 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)

(Contd. on page 7)



Page 7/9

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

## Trade name: Xantopren function Hardener 1 Plus

(Contd. of page 6)

Revision: 06.04.2023

· 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

· Class

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.

14.2 UN proper shipping name ADR	1993 FLAMMABLE LIQUID, N.O.S. (Reacti
	product of tetraethoxysilane, alkylate polysilicate, dioctyltin oxide and benzoic ac TETRAETHYL SILICATE)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Reaction produ of tetraethoxysilane, alkylated polysilicat dioctyltin oxide and benzoic acid, TETRAETH SILICATE)

3 (F1) Flammable liquids.

(Contd. on page 8)



Page 8/9

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

Revision: 06.04.2023

## Trade name: Xantopren function Hardener 1 Plus

(Contd. of page 7) 3 · Label · IMDG, IATA 3 Flammable liquids. · Class · Label 14.4 Packing group ADR, IMDG, IATA III· 14.5 Environmental hazards: Marine pollutant: No · 14.6 Special precautions for user Warning: Flammable liquids. · Kemler Number: 30 · EMS Number: F-E,S-E · Stowage Category Α · 14.7 Maritime transport in bulk according to Not applicable. IMO instruments Transport/Additional information: · ADR Limited quantities (LQ) 5L Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: Maximum net quantity per outer packaging: 1000 ml · Transport category · Tunnel restriction code D/E · IMDG · Limited quantities (LQ) Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: Maximum net quantity per outer packaging: 1000 ml UN 1993 FLAMMABLE LIQUID, N.O.S. (REACTION PRODUCT OF TETRAETHOXYSILANE, ALKYLATED POLYSILICATE, DIOCTYLTIN OXIDE AND UN "Model Regulation": 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

(Contd. on page 9)



Page 9/9

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

Trade name: Xantopren function Hardener 1 Plus

(Contd. of page 8)

Revision: 06.04.2023

· 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 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 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
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. 1B: Skin sensitisation – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

\* Data compared to the previous version altered.



Page 1/8

Revision: 06.04.2023

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

Printing date 06.04.2023

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 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

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

## SECTION 3: Composition/information on ingredients

- - 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 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 eye contact

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

(Contd. on page 2)



Page 2/8

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

(Contd. of page 1)

Revision: 06.04.2023

· After swallowing

Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

Trade name: Xantopren function Hardener 2 Plus

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

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

(Contd. on page 3)



Page 3/8

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

Trade name: Xantopren function Hardener 2 Plus

(Contd. of page 2)

Revision: 06.04.2023

· 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.

· DNELs				
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,	sediment, dry weight, freshwater 1.44 mg/Kg (sediment)			
sediment,	sediment, dry weight, marine water 1.44 mg/Kg (sediment)			

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

#### 8 2 Exposure controls

soil, dry weight

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

20 mg/Kg (soil)

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.

· 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.

(Contd. on page 4)



Page 4/8

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

Printing date 06.04.2023 Version number 5 (replaces version 4) Revision: 06.04.2023

## Trade name: Xantopren function Hardener 2 Plus

(Contd. of page 3)

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: Light yellow · 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: Not determined. · Upper: Not determined.

>48 °C · Flash point:

Decomposition temperature: Not determined.

·SADT

Not determined.

Viscosity:

Kinematic viscosity Not determined.

· Kinematic viscosity

· dynamic: Not determined.

Solubility

· Water: Not miscible or difficult to mix

Partition coefficient n-octanol/water (log

Not determined. value) Steam pressure: Not determined.

Vapour pressure:

Density and/or relative density

Density at 20 °C 0.92 g/cm3 Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information No further relevant information available.

Appearance:

Liquid

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

Product is not selfigniting. · Self-inflammability:

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

explosive air/vapour mixtures is possible.

· Solvent content: · Solids content: 9.9 %

(Contd. on page 5)



Page 5/8

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

Printing date 06.04.2023 Version number 5 (replaces version 4) Revision: 06.04.2023

## Trade name: Xantopren function Hardener 2 Plus

(Contd. of page 4)

	, ,
Change in condition Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
· Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	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
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:

## 110-27-0 isopropyl myristate

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 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 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.

(Contd. on page 6)



Page 6/8

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

Revision: 06.04.2023

## Trade name: Xantopren function Hardener 2 Plus

(Contd. of page 5)

#### · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic 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.

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

UN1993

(Contd. on page 7)



Page 7/8

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

Printing date 06.04.2023

Version number 5 (replaces version 4)

Revision: 06.04.2023

## Trade name: Xantopren function Hardener 2 Plus

(Contd. of page 6) · 14.2 UN proper shipping name 1993 FLAMMABLE LIQUID, N.O.S. (Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid) · IMDG, IATA FLAMMABLE LIQUID, N.O.S. (Reaction product of tetraethoxysilane, alkylated polysilicate, dioctyltin oxide and benzoic acid) · 14.3 Transport hazard class(es) · ADR · Class 3 (F1) Flammable liquids. · Label IMDG, IATA Class 3 Flammable liquids. · Label · 14.4 Packing group Ш · ADR, IMĎĞ, IATA · 14.5 Environmental hazards: Marine pollutant: No · 14.6 Special precautions for user Warning: Flammable liquids. · Kemler Number: 30 · EMS Number: F-E,S-E · Stowage Category · 14.7 Maritime transport in bulk according to **IMO** instruments Not applicable. · Transport/Additional information: 5L Limited quantities (LQ) Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: Maximum net quantity per outer packaging: 1000 ml 3 · Transport category · Tunnel restriction code D/E ·IMDG · Limited quantities (LQ) Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging:



Page 8/8

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

Printing date 06.04.2023 Version number 5 (replaces version 4) Revision: 06.04.2023

## Trade name: Xantopren function Hardener 2 Plus

(Contd. of page 7)

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

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. 2: Flammable liquids – Category 2 Skin Sens. 1B: Skin sensitisation – Category 1B

\* Data compared to the previous version altered.