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

Printing date 17.11.2022 Version number 4 (replaces version 1) Revision: 17.11.2022

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

- · 1.1 Product identifier
 - · Trade name: Xantopren Comfort Activator
- · 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:

trimethoxyvinylsilane

· 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.

Ground and bond container and receiving equipment. P240

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P261

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

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

skin with water [or shower].

· 2.3 Other hazards -

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

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SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
 - · Description: -

Dangerous components:		
CAS: 2768-02-7 EINECS: 220-449-8 Reg.nr.: 01-2119513215-52-xxx	trimethoxyvinylsilane Flam. Liq. 3, H226 Acute Tox. 4, H332; Skin Sens. 1B, H317	10-25%
CAS: 870-08-6 EINECS: 212-791-1 Reg.nr.: 01-2119971268-27-xxxx	dioctyltin oxide STOT SE 2, H371 Aquatic Chronic 4, H413	0-5%
CAS: 681-84-5 EINECS: 211-656-4 Reg.nr.: 01-2119957658-18- 0001	tetramethyl orthosilicate Flam. Liq. 3, H226 Acute Tox. 1, H330 Eye Dam. 1, H318 Skin Irrit. 2, H315	<1%

[·] 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
 - · General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · 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.

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

Alcohol-resistant foam

Carbon dioxide

- · 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 -

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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 the ground/soil.

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

Prevent material from reaching sewage system, holes and cellars.

- 6.3 Methods and material for containment and cleaning up: Collect mechanically.
- · 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

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- 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.

· DNELs					
2768-02-7	trimethoxyvinylsilane				
Oral	worker industrial, long term, systemic	0.3 mg/Kg (not defined)			
Dermal	worker professional, acute, systemic	26.9 mg/Kg/d (not defined)			
	worker professinal, long term, local	0.3 mg/Kg/d (not defined)			
Inhalative	worker industrial, acute, systemic	93.4 mg/m3 (not defined)			
	worker professional, long term, systemic	1.04 mg/m3 (not defined)			
	2768-02-7 Oral Dermal Inhalative	Dermal worker professional, acute, systemic worker professinal, long term, local Inhalative worker industrial, acute, systemic			

· PNECs

2768-02-7 trimethoxyvinylsilane

freshwater	0.34 mg/l (not defined)
marine water	0.034 mg/l (not defined)
sewage treatment plant	110 ma/l (not defined)

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sediment, dry weight, freshwater 0.27 mg/Kg (not defined)

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

· 8.2 Exposure controls

Individual protection measures, such as personal protective equipment

General protective and hygienic measures Keep away from foodstuffs, beverages and food.

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

Do not inhale gases / fumes / aerosols. · Breathing equipment: Not required.

· Hand protection

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

recommended

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:

123 °C

Not applicable.

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

· Physical state Fluid · Colour: Blue · Smell: Odourless

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

Boiling point or initial boiling point and

boiling range

· Flammability

· Lower and upper explosion limit

Lower: Not determined. · Upper: Not determined.

24 °C (2768-02-7 trimethoxyvinylsilane) Flash point:

Decomposition temperature: Not determined.

SADT · pH

Viscosity:

Not determined.

Not determined. Kinematic viscosity dynamic: Not determined. Solubility

· Water: Not miscible or difficult to mix

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Partition coefficient n-octanol/water (log

value)Not determined.Steam pressure:Not determined.

Density and/or relative density

Density at 20 °C
 Relative density
 Vapour density
 O.994 g/cm³
 Not determined.
 Not determined.

• 9.2 Other information No further relevant information available.

· Appearance:

Form: Pasty

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.

· Change in condition

• Evaporation rate Not determined.

Information with regard to physical hazard classes

Explosives
 Flammable gases
 Aerosols
 Oxidising gases
 Gases under pressure

Void
Void

· Flammable liquids Flammable liquid and vapour.

Flammable solids
Self-reactive substances and mixtures
Void
Pyrophoric liquids
Void
Pyrophoric solids

Pyrophoric solids Void
Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable gases in contact with water
Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Void

• Corrosive to metals • 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: -

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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:				
2768-02-7 tri	2768-02-7 trimethoxyvinylsilane			
Oral	LD50	7120-7236 mg/kg (rat)		
Dermal	LD50	3200 mg/kg (rabbit)		
Inhalative	LC50/4 h	16.8 mg/l (rat)		
		64000 mg/l (rat)		
Sensitisation	sensitization	n (guinea pig)		
870-08-6 dio	870-08-6 dioctyltin oxide			
Oral	LD50	>4000 mg/kg (rat)		
681-84-5 tetramethyl orthosilicate				
Oral	LD50	700 mg/kg (rat)		
Inhalative	LC50/4 h	0.392 mg/l (not defined)		

- 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:

2768-02-7 trimethoxyvinylsilane

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

EC50/48h >100 mg/l (daphnia) (OECD 202)

LC50/96h | 191 mg/l (fish)

870-08-6 dioctyltin oxide

EC50/48h 6.9 mg/l (daphnia)

LC50/96h 13 mg/l (fish)

- · 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.

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• 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
 - Additional ecological information:
 - General notes: Not known to be hazardous to water.

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.

14.1 UN number or ID number	
· ADR, IMDG, IATA	UN1993
14.2 UN proper shipping name · ADR	1993 FLAMMABLE LIQUID, N.C (trimethoxyvinylsilane)
· IMDG, IATA	FLAMMABLE LIQUID, N.O. (trimethoxyvinylsilane)
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:	Not applicable.
14.6 Special precautions for user Kemler Number:	Warning: Flammable liquids. 30



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· EMS Number: · Stowage Category	F-E, <u>S-E</u> A
· 14.7 Maritime transport in bulk according IMO instruments	to Not applicable.
· Transport/Additional information:	-
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 1000 ml
· Transport category · Tunnel restriction code	3 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S (TRIMETHOXYVINYLSILANE), 3, III

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.
 - · Seveso category P5c FLAMMABLE LIQUIDS
 - 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

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H371 May cause damage to organs.

H413 May cause long lasting harmful effects to aquatic life.

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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

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 (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
PVB: very Persistent and very Bioaccumulative

vPvB: very Persistent and very Bioaccumulative vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 1: Acute toxicity – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

** Pata compared to the provious version altered

* Data compared to the previous version altered.