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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 identi	ïer			
\cdot Trade name: ${f X}$	antopren Comfort Activator			
	fied uses of the substance or mixture and uses advised against information available.			
· Application of the substance / the mixture Activator for dental impression material				
 Manufacturer/S Kulzer GmbH 	upplier of the safety data sheet upplier: 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522			
 Informing depa 1.4 Emergency tel 	rtment: E-Mail: msds@kulzer-dental.com ephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-8446			
	zards identification			
	of the substance or mixture ccording to Regulation (EC) No 1272/2008			
Flam. Liq. 3 H226 Flammable liquid and vapour. Skin Sens. 1 H317 May cause an allergic skin reaction.				
2.2 Label elements				
Hazard picto GHS02 GH	IS07			
· Signal word	Warning			
-	rmining components of labelling:			
trimethoxyvir				
· Hazard state	ments			
H226 Flamm	able liquid and vapour.			
	use an allergic skin reaction. ry statements			
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.			
P240	Ground and bond container and receiving equipment.			
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.			
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.			
P280	Wear protective gloves/protective clothing/eye protection/face protectio hearing protection.			
P303+P361+	P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rins skin with water [or shower].			
[.] 2.3 Other hazards				
Results of PBT	and vPvB assessment			
· PBT: Not app				
• vPvB: Not a	nlicable			

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· 3.2 Mixtures · Description: -		
 Dangerous components 		
CAS: 2768-02-7 EINECS: 220-449-8	trimethoxyvinylsilane Flam. Liq. 3, H226 xxxx Acute Tox. 4, H332; Skin Sens. 1B, H317	10-25
CAS: 870-08-6 EINECS: 212-791-1 Reg.nr.: 01-2119971268-27->	dioctyltin oxide STOT SE 2, H371 xxxx 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 F	or the wording of the listed hazard phrases refer to section 16.	
SECTION 4. First aid n	neasures	
least 48 hours after the ac	neasures nay even occur after several hours; therefore medical observa	ation for
 4.1 Description of first aid r General information Symptoms of poisoning m least 48 hours after the ac After inhalation Supply fr After skin contact If skin After eye contact Rinse opened eye for seventing After relevant information No further relevant information 4.3 Indication of any immediated 	neasures nay even occur after several hours; therefore medical observa ccident. resh air; consult doctor in case of symptoms. irritation continues, consult a doctor. eral minutes under running water. Then consult doctor. ms and effects, both acute and delayed n available. fiate medical attention and special treatment needed	ation for
 4.1 Description of first aid r General information Symptoms of poisoning m least 48 hours after the ac After inhalation Supply fr After skin contact If skin After eye contact Rinse opened eye for seve 4.2 Most important sympton No further relevant informatio 	neasures nay even occur after several hours; therefore medical observa ccident. resh air; consult doctor in case of symptoms. irritation continues, consult a doctor. eral minutes under running water. Then consult doctor. ms and effects, both acute and delayed n available. fiate medical attention and special treatment needed	ation for
 4.1 Description of first aid r General information Symptoms of poisoning m least 48 hours after the ac After inhalation Supply fr After skin contact If skin After eye contact Rinse opened eye for seventing After relevant information No further relevant information 4.3 Indication of any immediated 	neasures may even occur after several hours; therefore medical observa cident. resh air; consult doctor in case of symptoms. irritation continues, consult a doctor. eral minutes under running water. Then consult doctor. ms and effects, both acute and delayed n available. fiate medical attention and special treatment needed n available.	ation for



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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:

681-84-5 tetramethyl orthosilicate

OEL (Ireland) Long-term value: 6 mg/m³, 1 ppm

·DNELs

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(Contd. of page 3) 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 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 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 123 °C · Flammability Not applicable. · 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 Not determined. · Viscosity: Not determined. Kinematic viscosity dynamic: Not determined. · Solubility · Water: Not miscible or difficult to mix (Contd. on page 5)



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· Partition coefficient n-octanol/water (log	Not data wain a d
value)	Not determined.
Steam pressure:	Not determined.
Density and/or relative density	$0.004 e/em^3$
Density at 20 °C	0.994 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
	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
	explosive air/vapour mixtures is possible.
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	
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: -

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		n available data, the classification critèria are not met.	
-		at are relevant for classification:	
	methoxyviny		
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)	
	sensitization	(guinea pig)	
870-08-6 dio	-		
Oral	LD50	>4000 mg/kg (rat)	
681-84-5 tetr	amethyl orth	osilicate	
Oral	LD50	700 mg/kg (rat)	
· Serious e	ye damage/ii	0.392 mg/l (not defined) on Based on available data, the classification criteria are not met. rritation Based on available data, the classification criteria are not me peritection	
Skin corr Serious e Respirato May cause Germ cell Carcinog Reproduc STOT-sin STOT-rep Aspiratio 11.2 Informa Endocrin	osion/irritation ye damage/in ye or skin se e an allergic s l mutagenicit enicity Based ctive toxicity gle exposure peated expos n hazard Bas tion on other e disrupting	on Based on available data, the classification criteria are not met. rritation Based on available data, the classification criteria are not me nsitisation kin reaction. y Based on available data, the classification criteria are not met. I on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. I on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classifi	
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Skin corr Serious e Respirato May cause Germ cell Carcinog Reproduc STOT-sin STOT-rep Aspiratio 11.2 Informa Endocrin	osion/irritation ye damage/in ye or skin se e an allergic s l mutagenicit enicity Based ctive toxicity gle exposure peated expos n hazard Bas tion on other e disrupting	on Based on available data, the classification criteria are not met. rritation Based on available data, the classification criteria are not me nsitisation kin reaction. y Based on available data, the classification criteria are not met. I on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. I on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classification criteria are not met. Here Based on available data, the classifi	

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.

· European waste catalogue

18 01 06* chemicals consisting of or containing hazardous substances

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.O.S (trimethoxyvinylsilane)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S (trimethoxyvinylsilane)
14.3 Transport hazard class(es)	
ADR	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class	3 Flammable liquids.
· Label	3
14.4 Packing group · ADR, IMDG, IATA	



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· 14.5 Environmental hazards:	Not applicable.
 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 according IMO instruments 	to Not applicable.
· Transport/Additional information:	-
• ADR • Limited quantities (LQ) • Excepted quantities (EQ) • Transport category • Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging 1000 ml 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 REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 20

· Regulation (EU) No 649/2012

870-08-6 dioctyltin oxide

Annex I Part 1

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.

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