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Safety Data Sheet acc. to OSHA HCS

Printing date 11/17/2022 Reviewed on 11/17/2022

1 Identification

- · Product identifier
 - · Trade name: Xantopren Comfort Activator
 - · Application of the substance / the mixture Activator for dental impression material
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522

· Information department:

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com

Emergency telephone number:

Emergency CONTACT (24-Hour-Number) ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard(s) identification

Classification of the substance or mixture

Flammable Liquids 3 H226 Flammable liquid and vapor.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Specific Target Organ Toxicity - Single Exposure 2 H371 May cause damage to organs.

- · Label elements
 - GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms







GHS02 GHS07 GHS08

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

trimethoxyvinylsilane

dioctyltin oxide

Hazard statements

Flammable liquid and vapor.

May cause an allergic skin reaction.

May cause damage to organs.

· Précautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

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If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF exposed or concerned: Call a poison center/doctor.

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

Specific treatment (see on this label). Wash contaminated clothing before reuse.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system

NFPA ratings for USA (scale 0-4)



Health = 0Fire = 3Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 0Fire = 3

Results of PBT and vPvB assessment

· PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

Description: -

	· Dangerous components:	
2768-02-7 trimethoxyvinylsilane		10-25%
	Flammable Liquids 3, H226 Acute Toxicity - Inhalation 4, H332; Sensitization - Skin 1B, H317	
870-08-6	dioctyltin oxide	0-5%
	Specific Target Organ Toxicity - Single Exposure 2, H371	
681-84-5	tetramethyl orthosilicate	<1%
	Flammable Liquids 3, H226 Acute Toxicity - Inhalation 1, H330 Eye Damage 1, H318	
	Skin Irritation 2, H315	

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

4 First-aid measures

· 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 complaints.

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

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· After eye contact

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

Information for doctor

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

5 Fire-fighting measures

- · Extinguishing media
 - Suitable extinguishing agents

Alcohol resistant foam

Carbon dioxide

- For safety reasons unsuitable extinguishing agents Water with full jet.
- 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.

- Advice for firefighters
 - Protective equipment: Mount respiratory protective device.
- · Additional information -

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

Prevent seepage into sewage system, workpits and cellars.

- Methods and material for containment and cleaning up: Pick up mechanically.
- · 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 disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
2768-02-7	trimethoxyvinylsilane	9.5 ppm
65-85-0	Benzoic acid	13 mg/m³
681-84-5	tetramethyl orthosilicate	0.083 ppm
· PAC-2:		
	trimethoxyvinylsilane	100 ppm
	Benzoic acid	140 mg/m³
681-84-5	tetramethyl orthosilicate	0.91 ppm
PAC-3:		
2768-02-7	trimethoxyvinylsilane	120 ppm
65-85-0	Benzoic acid	830 mg/m³
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681-84-5 tetramethyl orthosilicate

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1.4 ppm

7 Handling and storage

· Handling

· Precautions for safe handling

Keep receptacles 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.

· Conditions for safe storage, including any incompatibilities

- Storage
 - · Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

681-84-5 tetramethyl orthosilicate

REL Long-term value: 6 mg/m³, 1 ppm TLV Long-term value: 6 mg/m³, 1 ppm

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

· Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· Breathing equipment: Not required.

Protection of hands:

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 through 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 protection: Safety glasses

· Body protection: Light weight protective clothing

9 Physical and chemical properties

91 hysical and chemical properties	
Information on basic physical and chemical properties General Information Appearance:	
· Form:	Pasty
· Color:	Blue
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	undetermined 123 °C (253.4 °F)
· Flash point:	24 °C (75.2 °F)
· Flammability (solid, gaseous)	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	0.994 g/cm³ (8.29493 lbs/gal)
· Relative density	Not determined.
· Vapor density *	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
· dynamic:	Not determined.
· kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Possibility of hazardous reactions No dangerous reactions known

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- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: none
- · Additional information: -

11 Toxicological information

- · Information on toxicological effects
 - Acute toxicity:

Acute toxicity.					
· LD/LC50 values that are relevant for classification:					
2768-02-7 tr	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)			
Sensitization	Sensibilisierung	(guinea pig)			
870-08-6 dic	870-08-6 dioctyltin oxide				
Oral	LD50	>4000 mg/kg (rat)			
681-84-5 tet	681-84-5 tetramethyl orthosilicate				
Oral	LD50	700 mg/kg (rat)			
Inhalative	LC50/4 h	0.392 mg/l (not defined)			

- · Primary irritant effect:
 - · on the skin: No irritant effect.
- on the eye: No irritating effect.
 Sensitization: No sensitizing effects known. · Additional toxicological information: Harmful
 - · Carcinogenic categories
 - · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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

12 Ecological information

	· Toxicity		
	· Aquatio	c toxicity:	
ſ		trimethoxyvinylsilane	
ſ		>100 mg/l (algae)	
	EC50/48h	>100 mg/l (daphnia) (OECD 202)	
	LC50/96h	191 mg/l (fish)	
Ī	870-08-6 d	lioctyltin oxide	
Ī		6.9 mg/l (daphnia)	
	LC50/96h	13 mg/l (fish)	
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- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
 - **Bioaccumulative potential** No further relevant information available. **Mobility in soil** No further relevant information available.
- · Additional ecological information:
 - General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- 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 Transport information

· DOT · ADR, IMDG, IATA	NA1993 UN1993
· UN proper shipping name	
· DOT	Flammable liquids, n.o.s. (trimethoxyvinylsilane)
· ADR	1993 FLÀMMABLE LIQUID, N.Ó.S.
	(trimethoxyvinylsilane)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S.
-,	(trimethoxyvinylsilane)

- · Transport hazard class(es)
 - DOT



· Class 3 Flammable liquids · Label

· ADR



Class 3 (F1) Flammable liquids

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Maximum net quantity per outer packaging:

UN 1993 FLAMMABLE LIQUID, N.O.S.

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(Contd. of page 7) 3 · Label · IMDG, IATA 3 Flammable liquids · Class · Label · Packing group DOT, ADR, IMDG, IATA III· Environmental hazards: Not applicable. · Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): · EMS Number: F-E, S-E · Stowage Category Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information: · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 Maximum net quantity per outer packaging: 1000 ml · Limited quantities (LQ) 5L · Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: 30

15 Regulatory information

· UN "Model Regulation":

· Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

1000 ml

(TRIMETHOXYVINYLSILANE), 3, III

· Sara

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· Hazardous Air Pollutants

None of the ingredients is listed.

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(Contd. of page 8) · Proposition 65 Prop 65 - Chemicals known to cause cancer None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. · Cancerogenity categories EPA (Environmental Protection Agency) 65-85-0 Benzoic acid D · TLV (Threshold Limit Value) 870-08-6 dioctyltin oxide A4 · NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 vapor.

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.

Date of preparation / last revision 11/17/2022

Abbreviations and acronyms:

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

ACCOTO Tetatif at transport international des marchandises dang Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable Liquids 3: Flammable liquids - Category 3

Acute Toxicity - Inhalation 1: Acute toxicity - Category 1 Acute Toxicity - Inhalation 4: Acute toxicity - Category 4

Skin Irritation 2: Skin corrosion/irritation - Category 2

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Eye Damage 1: Serious eye damage/eye irritation – Category 1
Sensitization - Skin 1: Skin sensitisation – Category 1
Sensitization - Skin 1B: Skin sensitisation – Category 1B
Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2

* * Data compared to the previous version altered.