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

#### 1.1. Product identifier

**Product Name**: PASTE HARDENER- Condensation Silicone Catalyst

Code: PRD.01.10005

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intendent use: for Professional use only. Catalyst for condensation silicone.

Avoid use: in article for supply to, or use by, the general public.

#### 1.3. Details of the supplier of the safety data sheet

Company Name: President Dental GmbH

Street: Kesselbodenstrasse 5

**Zip-Code / Town:** 85391, Allershausen

Web: www.presidentdental.com

Contact for technical information: +49 8166 389 9 820

Phone / Fax / E-Mail: +49 8166 389 9 820 / +49 8166 389 9 821 / info@presidentdental.com

#### 1.4. Emergency Telephone Number

+49 8166 389 9 820 (8.00 am - 4.30 pm Mon-Fri)

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)	The product is not classified as hazardous pursuant to the				
	provisions set forth in EC Regulation 1272/2008 (CLP).				
Adverse physicochemical, human health and	No other hazards				
environmental effects:					

#### 2.2. Label Elements

The Regulation EC 1272/2008, on classification, labelling and packaging of substances and mixtures (CLP), shall not apply to a medical device in the finished state used in direct physical contact with the human body according to art. 1.5, letter d). Therefore the product is exempted from the CLP labeling requirements.

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:	None
Hazard statements	None
Precautionary statements:	None
Special Provisions:	EUH210 Safety data sheet available on request.
	EUH208 Contains carvone (ISO); 2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one.
	May produce an allergic reaction.
Special provisions according	None

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to Annex XVII of REACH and	l of REAC	CH and
subsequent amendments:	mendme	ents:

#### 2.3. Other Hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not Applicable

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification

Qty	<b>Chemical Name</b>	CAS No.	Classification
≥ 5% - < 10%	Trimethoxyprop ylsilane	CAS: 1067-25-0 EC: 213-926-7 REACH No. :01-2119972314- 37-XXXX	2.6/3 Flam. Liq. 3 H226 3.2/2 Skin Irrit. 2 H315
≥ 5% - < 10%	Dioctyltin oxide	CAS :870-08-6 EC :212-791-1 REACH No ::01-2119971268- 27-XXXX	<b>♦</b> 3.8/2 STOT SE 2 H371
≥ 3% - < 5%	Tetraethyl silicate; ethyl silicate	Index number: 014-005-00-0 CAS: 78-10-4 EC: 201-083-8 REACH No.: 01-2119496195- 28-XXXX	3.8/3 STOT SE 3 H335 2.6/3 Flam. Liq. 3 H226 3.1/4/Inhal Acute Tox. 4 H332 3.3/2 Eye Irrit. 2 H319
≥ 0,3% - < 0,5%	Carvone (ISO); 2-methyl-5- (prop-1-en-2- yl)cyclohex-2- en-1-one	Index number : 606-148-00-8 CAS : 99-49-0 EC : 202-759-5	3.4.2/1 Skin Sens. 1 H317 3.1/4/Oral Acute Tox. 4 H302

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Inhalation	Remove casualty to fresh air and keep warm and at rest.
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Eye Contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact:	Wash with plenty of water and soap.
Ingestion	Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION
	IMMEDIATELY.

#### 4.2. Most important symptoms and effects, both acute and delayed

None

#### 4.3. Indication of any immediate medical attention and special treatment needed

None

### **SECTION 5: Fire Fighting Measures**

## 5.1. Extinguishing media

Suitable extinguishing media:	Water.
	Carbon dioxide (CO2).
Extinguishing media which	None in particular.
must not be used for safety	
reasons:	

#### 5.2. Special Hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Advice for firefighters	Use suitable breathing apparatus .
	Collect contaminated fire extinguishing water separately. This must not be
	discharged into drains.
	Move undamaged containers from immediate hazard area if it can be done safely.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal Precautions, protective equipment and emergency procedures.

For non	emergency	personnel:
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Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Do not eat or drink while working.

#### 7.2. Conditions for safe storage, including any incompabilities.

Keep away from food, drink and feed.

Incompatible materials:

See section 10.5.

Instructions as regards storage premises:

Adequately ventilated premises.

### 7.3. Specific and use(s)

See section 1.2.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

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Trimethoxypi	ropylsilane -	CAS: 1067-2	25-0						
OEL Type	TWA		Duration	STEL		Dura	tion	Notes	Country
No data									_
available									
Dioctyltin oxi	de - CAS: 870	)-08-6							
OEL Type	TWA		Duration	STEL		Dura	tion	Notes	Country
AGW	0.01	0.002	8h	0.02	0.004	15mi	in		GERMANY
	mg/m³	ppm		mg/m <sup>3</sup>	ppm				
Tetraethyl sili	icate; ethyl s	ilicate - CAS	S: 78-10-4						
OEL Type	TWA		Duration	STEL		Durati	Note	:S	Country
						on			
VME/VLE	85 mg/m <sup>3</sup>	10 ppm	8h	85 mg/m <sup>3</sup>	10 ppm	15min			SWITZERLAND
AK	44 mg/m3		8h						HUNGARY
GVI/KGVI	44 mg/m3	5 ppm	8h						CROATIA
НТР	43 mg/m <sup>3</sup>	5 ppm	8h	86 mg/m <sup>3</sup>	10 ppm	15min			FINLAND
MAK	44 mg/m <sup>3</sup>	5 ppm	8h	88 mg/m <sup>3</sup>	10 ppm	15min			AUSTRIA
NDS/NDSCh	44 mg/m <sup>3</sup>		8h						POLAND
NPEL	44 mg/m <sup>3</sup>	5 ppm	8h						SLOVAKIA (Slovak Republic)
EU	44 mg/m <sup>3</sup>	5 ppm	8h						
OELV	44 mg/m <sup>3</sup>	5 ppm	8h						IRELAND
RD	44 mg/m <sup>3</sup>	5 ppm	8h						LITHUANIA
RV	44 mg/m <sup>3</sup>	5 ppm	8h						LATVIA
TGG	44 mg/m <sup>3</sup>	5 ppm	8h						NETHERLAND S
TLV	44 mg/m <sup>3</sup>	5 ppm	8h						MALTA
TLV	44 mg/m <sup>3</sup>	5 ppm	8h						NORWAY
TLV	44 mg/m <sup>3</sup>	5 ppm	8h						ROMANIA

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TLV	50 mg/m <sup>3</sup>	5.85 ppm	8h	200 mg/m <sup>3</sup>	23.4 ppm	15min		CZECH REPUBLIC
TLV	85 mg/m <sup>3</sup>	10 ppm	8h					DENMARK
TLV	44 mg/m <sup>3</sup>	5 ppm	8h					CYPRUS
TLV	44 mg/m <sup>3</sup>	5 ppm	8h					BULGARIA
TLV	44 mg/m <sup>3</sup>	5 ppm	8h					GREECE
TLV-ACGIH	85 mg/m <sup>3</sup>	10 ppm	8h					
VL	44 mg/m <sup>3</sup>	5 ppm	8h					LUXEMBOURG
VLE	44 mg/m <sup>3</sup>	5 ppm	8h					PORTUGAL
VLEP	85 mg/m <sup>3</sup>	10 ppm	8h					FRANCE
VLEP	44 mg/m <sup>3</sup>	5 ppm	8h	0 mg/m3	0 ppm			ITALY
VLEP	44 mg/m <sup>3</sup>	5 ppm	8h					BELGIUM
WEL	44 mg/m <sup>3</sup>	5 ppm	8h					UNITED KINGDOM
MAK	86 mg/m <sup>3</sup>	10 ppm	8h	86 mg/m <sup>3</sup>	10 ppm	15min		GERMANY
AGW	12 mg/m <sup>3</sup>	1.4 ppm	8h	12 mg/m <sup>3</sup>	1.4 ppm	15min		GERMANY
MV	170 mg/m <sup>3</sup>	20 ppm	8h	170 mg/m³	20 ppm	15min		SLOVENIA
MAK	85 mg/m <sup>3</sup>	10 ppm	8h	85 mg/m <sup>3</sup>	10 ppm	15min		SWITZERLAND
ACGIH		10 ppm	8h				URT and eye irr, kidney dam	
TLV-ACGIH		10 ppm	8h				URT & eye irr, kidney dam	
carvone (ISO	); 2-methyl-5-	(prop-1-en	-2-yl)cyclohe	ex-2-en-1-one	- CAS: 99-	49-0		
OEL Type	TWA		Duration	STEL		Durati on	Notes	Country
No data available						J.:		

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DNEL Exposure Limit Value	000
•	
Trimethoxypropylsilane - CAS: 1067-25-0	Consumer: 154.17 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
CA3. 1007-23-0	Consumer: 8.77 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic
	effects
	Consumer: 30.25 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term,
	systemic effects
	Consumer: 1.26 mg/kg/d - Exposure: Human Oral - Frequency: Long Term, systemic
	effects
	Worker Professional: 17.86 mg/kg/d - Exposure: Human Dermal - Frequency: Long
	Term, systemic effects
	Worker Professional: 123.82 mg/m3 - Exposure: Human Inhalation - Frequency: Long
	Term, systemic effects
Dioctyltin oxide - CAS:	Worker Professional: 0.03 mg/m3 - Exposure: Human Inhalation - Frequency: Short
870-08-6	Term, local effects
	Consumer: 0.001 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term,
	systemic effects
	Worker Professional: 0.03 mg/m3 - Exposure: Human Inhalation - Frequency: Short
	Term, systemic effects
tetraethyl silicate; ethyl	Consumer: 14 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local
silicate - CAS: 78-10-4	effects
	Consumer: 14 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local
	effects Worker Professional: 85 mg/m² Evnesure: Human Inhalation Frequency: Long Torm
	Worker Professional: 85 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
	Consumer: 3 mg/kg/d - Exposure: Human Dermal - Frequency: Short Term, systemic
	effects
	Consumer: 14 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic
	effects
	Consumer: 3 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic
	effects
	Consumer: 14 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic
	effects
	Worker Professional: 56 mg/kg/d - Exposure: Human Dermal - Frequency: Short Term,
	systemic effects
	Worker Professional: 56 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term,
	systemic effects
	Worker Professional: 85 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term,
PNEC Exposure Limit Value	systemic effects
Trimethoxypropylsilane -	Target: Soil (agricultural) - Value: 0.25 mg/kg
CAS: 1067-25-0	Target: Fresh Water - Value: 1.49 mg/l
C. 13. 1007 23 0	Targett Tesh Water Value 1.75 hg/l

Target: intermittent release - Value: 14.9 mg/l

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	Target: Marine water - Value: 0.149 mg/l
	Target: Freshwater sediments - Value: 5.6 mg/kg
	Target: Marine water sediments - Value: 0.56 mg/kg
	Target: Microorganisms in sewage treatments - Value: 10 mg/l
tetraethyl silicate; ethyl	Target: Soil (agricultural) - Value: 0.05 mg/kg
silicate - CAS: 78-10-4	Target: Fresh Water - Value: 0.19 mg/l
	Target: intermittent release - Value: 10 mg/l
	Target: Marine water - Value: 0.019 mg/l
	Target: Freshwater sediments - Value: 0.83 mg/kg
	Target: Marine water sediments - Value: 0.083 mg/kg
	Target: Microorganisms in sewage treatments - Value: 4000 mg/l

## 8.2. Exposure controls

Precautionary measures:	Give adequate ventilation to the premises where the product is stored and/or handled.
Eye protection:	Wear airtight protective goggles.
Protection for skin:	Wear professional overalls and safety footwear
Protection for hands:	Permeation resistant gloves A H J in PVA or fluorinated rubber.
	The following should be considered when choosing work glove material: compatibility,
	degradation, failure time and permeability.
	The work gloves' resistance to chemical agents should be checked before use, as it can
	be unpredictable. The gloves' wear time depends on the duration and type of use.
Respiratory protection:	Mask with a type AX filter
	Respiratory protection devices must be used if the technical measures adopted are not
	suitable for restricting the worker's exposure to the threshold values considered (e.g.
	TLV-TWA).
Thermal Hazards:	None
Environmental exposure	None
controls:	
Appropriate engineering	None
controls:	

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Properties	Value
Appereance	Gel
Colour	Red
Odour	Mint
Odour treshold	Not available
рН	Not available
Melting point/freezing point	Not available

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Initial boiling point	Not available
Boiling range	Not available
Flash point	63,9 °C.
Evaporation rate	Not available
Flmmability of solids and gases	Not applicable
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit-	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0.94 g/cm <sup>3</sup>
Solubility	İnsoluble in water
Partion coefficient: n- octano/water	Not available
Auto-ignition tempreature	Not available
Decomption tempreature	Not available
Viscosity	25 kPa*s (@23°C)
Explosive properties	Not available
Oxiding properties	Not availabe

#### 9.2. Other Information

Properties	Value
Miscibility:	Not available
Fat Solubility:	Not available
Conductivity:	Not available
Substance Groups relevant properties	Not available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Stable under normal conditions

## 10.2. Chemical Stability

Stable under normal conditions

## 10.3. Possibility of Hazardous Reactions

The vapours may also form explosive mixtures with the air.

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## 10.4. Conditions to avoid

Avoid moisture and high temperature. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

## 10.5 Incompatibles materials

Water

Avoid contact with strong oxidizing materials.

Acids

Alkalis

#### 10.6. Hazardous decomposition products

None.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Toxicological information of the product: PASTE HARDENER	
Acute Toxicity	Not classified
Skin Corrosion / Irritation	Not classified
Serious Eye Damage / Irritation	Not classified
Respiratory or Skin Sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	Not classified

Toxicological information of the main substances found in the product:	
Trimethoxypropylsilane - CAS: 1067-25-0	
Acute Toxicity	Test: LC50 - Route: Inhalation - Species: Rat 22.2 mg/l -
	Duration: 4h - Source: (OECD 403, ECHA dossier).
	Test: LD50 - Route: Oral - Species: Rat > 5170 mg/kg -
	Source: (OECD 401, ECHA dossier).
Skin Corrosion / Irritation	Species: Rabbit - Skin Irritant - Source: (OECD 404, ECHA
	dossier).
Serious Eye Damage / Irritation	Species: Rabbit - Based on available data, the
	classification criteria are not met - Source: (OECD 405,
	ECHA dossier).

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Respiratory or Skin Sensitisation	Test: Skin Sensitization - Species: Guinea pig - Based on
'	available data, the classification criteria are not met -
	Source: (OECD 406, ECHA dossier).
Germ cell mutagenicity	Test: In vitro - Species: Salmonella Typhimurium -
, , , , , , , , , , , , , , , , , , ,	Negative - Source: (OECD 471, ECHA dossier).
	Test: In vivo - Species: Mouse - Negative - Source:
	(OECD 474, ECHA dossier).
Carcinogenicity	Not classified
Reproductive Toxicity	Not classified
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	Not classified
Dioctyltin oxide - CAS: 870-08-6	
Acute Toxicity	Test: LD50 - Route: Oral - Species: Rat > 2500 mg/kg -
,	Source: (MSDS supplier)
	Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg -
	Source: (OECD 402, ECHA dossier).
Respiratory or Skin Sensitisation	Test: Skin Sensitization - Based on available data, the
,	classification criteria are not met - Source: (LLNA, ECHA
	dossier).
Germ cell mutagenicity	Test: In vitro - Species: Salmonella Typhimurium -
Ŭ ,	Negative - Source: (ECHA dossier).
	Test: In vivo - Species: Mouse - Negative - Source:
	(OECD 474, ECHA dossier).
STOT - repeated exposure	Route: Oral - Species: Rat - Notes: Target organ:
·	Immune system - Positive - Source: (ECHA dossier).
tetraethyl silicate; ethyl silicate - CAS: 78-10-4	
Acute Toxicity	Test: LC50 - Route: Inhalation - Species: Rat 16 mg/l -
·	Duration: 4h - Source: (OECD 403, MSDS supplier).
	Test: LD50 - Route: Oral - Species: Rat > 2500 mg/kg -
	Source: (OECD 423, MSDS supplier).
Skin Corrosion / Irritation	Species: Rabbit - Based on available data, the
	classification criteria are not met - Source: (OECD 404,
	MSDS supplier).
Serious Eye Damage / Irritation	Species: Rabbit - Based on available data, the
	classification criteria are not met - Source: (OECD 405,
	MSDS supplier).
Respiratory or Skin Sensitisation	Test: Skin Sensitization - Species: Guinea pig - Based on
Respiratory or Skin Sensitisation	available data, the classification criteria are not met -
Respiratory or Skin Sensitisation	·
Respiratory or Skin Sensitisation  STOT - repeated exposure	available data, the classification criteria are not met -

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	not met - Source: (OECD 422, MSDS supplier).
	Test: LOAEL - Route: Inhalation - Species: Mouse 0.43
	mg/I - Based on available data, the classification criteria
	are not met - Source: (OECD 412, MSDS supplier).
carvone (ISO); 2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en	-1-one - CAS: 99-49-0
Acute Toxicity	Test: LD50 - Route: Oral - Species: Rat 1640 mg/l -
	Source: (MSDS supplier

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Adopt good working practices, so that the product is not released into the environment.	
PASTE HARDENER	
Not classified for environme	ntal hazards
Based on available data, the	classification criteria are not met
Trimethoxypropylsilane - CA	AS: 1067-25-0
Not classified for environme	ntal hazards
Based on available data, the	classification criteria are not met
a) Aquatic acute toxicity:	Endpoint: EC50 - Species: Daphnia > 816 mg/l - Duration h: 48h (EU Method C.2,
	Daphnia magna, ECHA dossier).
	Endpoint: EC50 - Species: Algae > 913 mg/l - Duration h: 72h (EU Method C.3,
	Scenedesmus subspicatus, ECHA dossier).
	Endpoint: LC50 - Species: Fish > 746 mg/l - Duration h: 96h (read across, Brachydanio
	rerio, ECHA dossier).
Trimethoxypropylsilane - CA	AS: 1067-25-0
a) Aquatic acute toxicity:	Endpoint: EC50 - Species: Daphnia > 75 mg/l - Duration h: 48h (OECD 202, Daphnia
	magna, MSDS supplier).
	Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72h (OECD 201,
	Pseudokirchnerella subcapitata, MSDS supplier).
	Endpoint: LC50 - Species: Fish > 245 mg/l - Duration h: 96h (OECD 203, Brachydanio
	rerio, MSDS supplier).
	Endpoint: NOEC - Species: Algae > 100 mg/l (OECD 201, Pseudokirchnerella
	subcapitata, MSDS supplier).
	Endpoint: NOEC - Species: Daphnia > 75 mg/l (OECD 202, Daphnia magna, MSDS
	supplier).
	Endpoint: NOEC - Species: Fish > 245 mg/l (OECD 203, Brachydanio rerio, MSDS
	supplier).

## 12.2. Persistance and degradability

Trimethoxypropylsilane - CAS: 1067-25-0

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Biodegradability:	Non-readily biodegradable
Dioctyltin oxide - CAS: 870-08-6	
Biodegradability:	Non-readily biodegradable
tetraethyl silicate; ethyl silicate - CAS: 78-10-4	
Biodegradability:	Readily biodegradable

### 12.3. Bioaccumulative potential

tetraethyl silicate; ethyl silicate - CAS: 78-10-4	
Test:	BCF - Bioconcentrantion factor 3.16
Test:	Kow - Partition coefficient 3.18

#### 12.4. Mobility in Soil

Information not available

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances:	None
PBT Substances:	None

#### 12.6. Other adverse effects

Information not available
---------------------------

#### **SECTION 13: Disposal Considerations**

### 13.1. Waste Treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

## **SECTION 14: Transport information**

#### 14.1 UN number

Not classified as dangerous in the meaning of transport regulations.

#### 14.2. UN proper shipping name

Not available

#### 14.3. Transport hazard class(es)

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Not available

#### 14.4. Packing Group

Not available

#### 14.5. Environmental hazards

ADR-Enviromental Pollutant: No IMDG-Marine pollutant: No

#### 14.6. Special precautions for user

Not available

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific fort he substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)		
Dir. 2000/39/EC (Occupational exposure limit values)		
Regulation (EC) n. 1907/2006 (REACH)		
Regulation (EC) n. 1272/2008 (CLP)		
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013		
Regulation (EU) 2015/830		
Regulation (EU) n. 286/2011 (ATP 2 CLP)		
Regulation (EU) n. 618/2012 (ATP 3 CLP)		
Regulation (EU) n. 487/2013 (ATP 4 CLP)		
Regulation (EU) n. 944/2013 (ATP 5 CLP)		
Regulation (EU) n. 605/2014 (ATP 6 CLP)		
Regulation (EU) n. 2015/1221 (ATP 7 CLP)		
Regulation (EU) n. 2016/918 (ATP 8 CLP)		
Regulation (EU) n. 2016/1179 (ATP 9 CLP)		
Regulation (EU) n. 2017/776 (ATP 10 CLP)		
Regulation (EU) n. 2018/669 (ATP 11 CLP)		
Regulation (EU) n. 2018/1480 (ATP 13 CLP)		
Regulation (EU) n. 2019/521 (ATP 12 CLP)		
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006		
(DEAGUE)		

(REACH) and subsequent modifications:

Restrictions related to the Restriction 3

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product:	
Restrictions related to the	Restriction 20
substances contained:	Restriction 69
Provisions related to directive EU	Seveso III category according to Annex 1, part 1 - None
2012/18 (Seveso III):	
Lagerklasse according to TRGS	LGK 10: Combustible liquids
510:	
WGK Classification (Water hazard	WGK2 - Hazardous for water
class - Verwaltungsvorschrift	
wassergefährdende Stoffe)	
Lagerklasse according to TRGS	LGK 10: Combustible liquids
510:	
Substances subject to	Dioctyltin oxide.
exportation reporting pursuant	
to (EC) Reg. 649/2012:	
California Proposition 65	Substance(s) listed under California Proposition 65: None.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment ha	Io Chemical Safety Assessment has been carried out for the mixture.		
Substances for which a Chemical	Trimethoxypropylsilane		
Safety Assessment has been	Dioctyltin oxide		
carried out:	tetraethyl silicate; ethyl silicate		

#### **SECTION 16: Other information**

### **Other Information**

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H371 May cause damage to organs (immune system) if swallowed.

H335 May cause respiratory irritation.

H332 Harmful if inhaled.

Acute toxicity, category 4.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H302 Harmful if swallowed.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2

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Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT SE 2	3.8/2	Specific target organ toxicity - single exposure, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

#### **Further Information**

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECHA – European Chemical Agency

GESTIS - Information system on hazardous substances of the German Social Accident Insurance

IARC - International Agency for Research on Cancer

IPCS INCHEM - International Programme on Chemical Safety

ISS – Istituto Superiore di Sanità

PubChem - open chemistry database at the National Institutes of Health (NIH)

A safety data sheet is not required for this product under article 31 of Regulation 1907/2006/EC. This safety data sheet has been created on a voluntary basis.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of

Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

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

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport

Association" (IATA).

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ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization"
	(ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.