Printing date 09.03.2022

Version number 1

Revision: 12.08.2021

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

· 1.1 Product identifier

· Trade name: Silano Pen - Refill Cartridge

· Article number: 320 0047 0, 320 0047 1, 540 0083 0

· 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:

· Application of the substance / the mixture: Bonding system.

• 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: bredent GmbH & Co.KG Weißenhorner Straße 2 89250 Senden Tel: +49 (0) 7309/872-0 Fax: +49 (0) 7309/872-24

• Further information obtainable from:

*R & D* 

e-mail: R.D@bredent.com

• 1.4 Emergency telephone number: (001) 352 323 3500

## **SECTION 2: Hazards identification**

- · 2.1 Classification of the substance or mixture
- · Remark

The device is a medical device pursuant to Council Directive 93/42/EEC of 14 June 1993 concerning medical devices. No safety data sheet is required for the device, so no claim is made to full compliance with the relevant statutory requirements.

Classification according to Regulation (EC) No 1272/2008



Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

Medical products and medical devices within the meaning of Directives 90/385/EEC and 93/42/EEC used in an invasive manner or in direct contact with the body as well as medical products and medical devices falling under Directive 98/79/EC are fully exempt from the provisions of the CLP Regulation and therefore do not need to be classified, packaged or labelled.

The product is classified and labelled according to the CLP regulation.

- · Hazard pictograms GHS02
- · Signal word Danger
- · Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

- · Precautionary statements
- *P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.*
- *P211* Do not spray on an open flame or other ignition source.
- *P251* Do not pierce or burn, even after use.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)



Printing date 09.03.2022

Version number 1

Revision: 12.08.2021

Trade name: Silano Pen - Refill Cartridge

(Contd. of page 1)

3.2 Chemical characterisation: Mixtures Description: Active substance with propellant Mixture of substances listed below with nonha	zardous additions
Dangerous components:	241 4045 444110115.
CAS: 106-97-8 butane, pure EINECS: 203-448-7	

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

• 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- In cases of frost bites, rinse with plenty of water. Do not remove clothing.
- Cover wound with a sterile dressing.
- If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist 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: CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)
- · 5.3 Advice for firefighters
- Protective equipment: No special measures required.
- · Additional information Cool endangered receptacles with water spray.

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

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- 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 disposal information.

# **SECTION 7: Handling and storage**

• 7.1 Precautions for safe handling Handle with care. Avoid jolting, friction and impact. Open and handle receptacle with care.

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Printing date 09.03.2022

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Version number 1

Revision: 12.08.2021

(Contd. on page 4)

GB

## Trade name: Silano Pen - Refill Cartridge

· Information about fi	(Contd. of page 2) (Contd. of page 2)
	naked flame or any incandescent material.
	s away - Do not smoke.
Protect against electr	
	r: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric or burn, even after use.
• 7.2 Conditions for sa • Storage:	fe storage, including any incompatibilities
	net by storerooms and receptacles:
Store only in the orig	inal receptacle.
Store in a cool locati	
	lations on storing packagings with pressurised containers. F <b>orage in one common storage facility:</b> Not required.
	about storage conditions:
Keep container tightl	y sealed.
Do not seal receptaci	
Store in cool, dry cor Protect from heat and	iditions in well sealed receptacles.
	<b>s)</b> No further relevant information available.
SECTION & Ex	posure controls/personal protection
SLCHON 0. LAP	osure controls/personal protection
<b>4</b>	
· 8.1 Control parameter	
• 8.1 Control paramete • Additional informati	ers
• 8.1 Control paramete • Additional informati	ers on about design of technical facilities: No further data; see item 7. it values that require monitoring at the workplace:
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Printing date 09.03.2022

Version number 1

Revision: 12.08.2021

Trade name: Silano Pen - Refill Cartridge

	(Contd. of page
· Odour:	Characteristic
· Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. 2: -44 °C
Flash point:	-97 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	365 °C
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Not determined.
Explosion limits:	
Lower:	1.5 Vol %
Upper:	10.9 Vol %
Vapour pressure at 20 °C:	8300 hPa
Density at 20 °C:	0.80946 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Organic solvents:	100.0 %
9.2 Other information	No further relevant information available.

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

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: Stable at environment temperature.
- 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: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

· 11.1 Information on toxicological effects

- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · 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.

(Contd. on page 5)

GB

Printing date 09.03.2022

Version number 1

Revision: 12.08.2021

Trade name: Silano Pen - Refill Cartridge

#### · Additional toxicological information:

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 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.
- Additional ecological information:
- · General notes: Not hazardous for water.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

#### · Recommendation

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:

• *Recommendation: Disposal must be made according to official regulations.* 

950 ) AEROSOLS OSOLS OSOLS, flammable
OSOLS
OSOLS
OSOLS, flammable

(Contd. of page 4)

Printing date 09.03.2022

Version number 1

Revision: 12.08.2021

Trade name: Silano Pen - Refill Cartridge

	(Contd. of page
Label	2.1
IMDG, IATA	
Class	2.1 Gases.
Label	2.1
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
Hazard identification number (Kemler code): EMS Number:	- F-D,S-U
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	<b>f</b> Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
_	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN1950, AEROSOLS, 2.1

## **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture • Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the CLP regulation.
- · Hazard pictograms GHS02
- · Signal word Danger
- · Hazard statements
- H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
- · Precautionary statements
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- *P211* Do not spray on an open flame or other ignition source.
- *P251* Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- *Directive 2012/18/EU*
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 7)

GB



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## Trade name: Silano Pen - Refill Cartridge

(Contd. of page 6)

	This information is based on our present knowledge. However, this shall not constitute a guarantee for pecific product features and shall not establish a legally valid contractual relationship.
ŀ	Relevant phrases
	H220 Extremely flammable gas.
	1280 Contains gas under pressure; may explode if heated.
1	Department issuing SDS: R & D
	Contact: R & D
7	Abbreviations and acronyms:
	RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning
	nternational Transport of Dangerous Goods by Rail)
I	CAO: International Civil Aviation Organisation
A	IDR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning
	nternational Carriage of Dangerous Goods by Road)
	MDG: International Maritime Code for Dangerous Goods
	ATA: 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) PBT: Persistent, Bioaccumulative and Toxic
	PvB: very Persistent and very Bioaccumulative
	Van. Gas 1: Flammable gases – Category 1
	lerosol 1: Aerosols – Category 1
	Press. Gas (Comp.): Gases under pressure – Compressed gas
	<sup>t</sup> Data compared to the previous version altered.

