

SILIRUB CLEANROOM

SAFETY DATA SHEET

Based on Directive 2001/58/EC of the Commission of the European Communities

1. Identifications of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

- Not Applicable

1.2 Use of the substance or the preparation:

Sealant

1.3 Company/undertaking identification

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2. Composition/information on ingredients

Hazardous ingredients	CAS-NO. EINECS-NO.	Conc. in %	Hazard Symbol	Risks (R-phrases)
trimethoxy(methyl)silane	1185-55-3 214-685-0	1.0 – 5.0	F;Xi	11-38 (1)
organotitanium compound with alkoxy silane	- -	1.0 – 5.0	F;Xi	11-38 (1)
silica, fumed	112945-52-5 -	1.0 – 5.0	-	-
limestone	1317-65-3 215-279-6	> 10	-	-

3. Hazards identification

- No hazard classification in accordance with directives 67/548/EEC and 1999/4

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4. First aid measures

4.1 Eye contact:

- Rinse immediately with plenty of water
- Seek medical advice

4.2 Skin contact:

- Rinse immediately with plenty of water
- If irritation

4.3 After inhalation

- Remove the victim into fresh air
- Seek medical advice

4.4 After ingestion:

- Never give water to an unconscious person
- Do not induce vomiting
- Seek medical advice

5. Hazards identification

5.1 Suitable extinguishing media:

- Polyvalent foam
- ABC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:

- None

5.3 Special exposure hazards:

- Upon combustion CO and CO₂ are formed

5.4 Instructions:

- No specific firefighting instructions required

5.5 Special protective equipment for firefighters:

- Heat/fire exposure: compressed air/oxygen apparatus
- Protective clothing for exposure to chemicals

6. Accidental release measures

6.1 Personal protection/precautions:

- See heading 8.1/8.3/10.3

6.2 Environmental precautions:

- Use appropriate containment to avoid environmental contamination

6.3 Methods for cleaning up:

- Scoop solid spill into closing containers
- Clean contaminated surfaces with an excess of water

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7. Handling and storage

7.1 Handling:

- Observe normal hygiene standards

7.2 Storage:

- Keep container tightly closed
- Store in a dry area

Storage temperature	:	room temperature
Quantity limits	:	N.D. kg
Storage life	:	365 days
Materials for packaging	:	
- Suitable	:	plastics

7.3 Specific uses:

- See information supplied by the manufacturer

8. Exposure controls/Personal protection

8.1 Exposure limit values:

SILICA,FUMED:

MAK	:	4 E	mg/m³	ppm
TRK	:		mg/m³	ppm

LIMESTONE:

TLV-TWA	:	10	mg/m³	ppm
TLV-STEL	:	-	mg/m³	ppm
TLV-Ceiling	:		mg/m³	ppm

OES-LTEL	:	4 R/10 I	mg/m³ -	ppm
OES-STEL	:	-	mg/m³ -	ppm

MAK	:		mg/m³	ppm
TRK	:		mg/m³	ppm

MAC-TGG 8 h	:	10	mg/m³	
MAC-TGG 15 min.	:		mg/m³	
MAC-Ceiling	:		mg/m³	

VME-8 h	:	10	mg/m³ -	ppm
VLE-15 min.	:	-	mg/m³ -	ppm

GWBB-8 h	:	10	mg/m³ -	ppm
GWK-15 min.	:	-	mg/m³ -	ppm
Momentary value	:		mg/m³	ppm

EC	:		mg/m³	ppm
EC-STEL	:		mg/m³	ppm

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8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Use only in well ventilated area

8.2.2 Environmental exposure controls: see heading 13

8.3 Personal protection:

8.3.1 respiratory protection

- Respiratory protection not required for normal conditions of use

8.3.2 hand protection:

- Chemically resistant gloves

8.3.3 eye protection:

- Safety glasses

8.3.4 skin protection:

- Suitable protective clothing

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	:	Paste
Odour	:	Almost odourless
Colour	:	Variable in colour

9.2 Important health, safety and environmental information:

pH value	:	N.D.	
Boiling point/boiling range	:	N.D.	°C
Flashpoint	:	N.D.	°C
Explosion limits	:	N.D.	vol%
Vapour pressure (at 20°C)	:	N.D.	hPa
Vapour pressure (at 50°C)	:	N.D.	hPa
Relative density (at 20°C)	:	1.0 - 1.3	
Water solubility	:	Insoluble	
Soluble in	:	Organic solvents	
Relative vapour density	:	N.D.	
Viscosity	:	N.D.	Pa.s
Partition coefficient n-octanol/water	:	N.D.	
Evaporation rate			
ratio to butyl acetate	:	N.D.	
ratio to ether	:	N.D.	

9.3 Other information:

Melting point/melting range	:	N.D.	°C
Auto-ignition point	:	N.D.	°C
Saturation concentration	:	N.D.	g/m ³

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10. Stability and reactivity

10.1 Conditions to avoid/reactivity:

- Stable under normal conditions

10.2 Materials to avoid:

- None

10.3 Hazardous decomposition products:

- Upon combustion CO and CO₂ are formed

11. Toxicological information

11.1 Acute toxicity:

SILICA,FUMED:

LD50 oral rat	: 3160	mg/kg
LD50 dermal rat	: N.D.	mg/kg
LD50 dermal rabbit	: > 5000	mg/kg
LC50 inhalation rat	: N.D.	mg/l/4 h
LC50 inhalation rat	: N.D.	ppm/4 h

LIMESTONE:

LD50 oral rat	: 6450	mg/kg
LD50 dermal rat	: N.D.	mg/kg
LD50 dermal rabbit	: N.D.	mg/kg
LC50 inhalation rat	: N.D.	mg/l/4 h
LC50 inhalation rat	: N.D.	ppm/4 h

11.2 Chronic toxicity:

SILICA,FUMED:

EC carc. cat.	: not listed
EC muta. cat.	: not listed
EC repr. cat.	: not listed
Carcinogenicity (TLV)	: not listed
Carcinogenicity (MAC)	: not listed
Carcinogenicity (VME)	: not listed
Carcinogenicity (GWBB)	: not listed
Carcinogenicity (MAK)	: not listed
Mutagenicity (MAK)	: not listed
Teratogenicity (MAK)	: C

IARC classification : 3

11.3 Routes of exposure: ingestion, inhalation, eyes and skin

11.4 Acute effects/symptoms:

- Unlikely to cause harmful effects

11.5 Chronic effects:

- Not classified as toxic to reproduction (EC)
- Unlikely to cause harmful effects

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12. Ecological information

12.1 Ecotoxicity:

- No data available

12.2 Mobility:

- **Volatile organic compounds (VOC):** < 0.5%
- Insoluble in water
- Substance sinks in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- | | | | |
|------------------------------|---|-------------------|---------------|
| - biodegradation BOD5 | : | N.D. | % ThOD |
| - water | : | No data available | |
| - soil | : | T ½: N.D. | days |

12.4 Bioaccumulative potential:

- | | | |
|------------------|---|------|
| - log Pow | : | N.D. |
| - BCF | : | N.D. |

12.5 Other adverse effects:

- **WGK** : 1 Classification based on the components as per
Verwaltungsvorschrift wassergefährdender Stoffe
(VwVwS) of 17 May 1999)
- **Effect on the ozone layer** : Not dangerous for the ozone layer
1999/45/EC)
- **Greenhouse effect** : no data available
- **Effect on waste water purification** : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09)

13.2 Disposal methods:

- Allow waste to solidify
- Remove to an authorized dump

13.3 Packaging/Container:

- Waste material code packaging (75/442/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 02 (plastic packaging)

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14. Transport information

- 14.1 **Classification of the substance in compliance with UN Recommendations**
- | | | |
|----------------------|---|-------------|
| UN number | : | - |
| CLASS | : | NOT SUBJECT |
| SUB RISKS | : | |
| PACKING | : | |
| PROPER SHIPPING NAME | : | |
- 14.2 **ADR (transport by road)**
- | | | |
|-----------------------|---|-------------|
| CLASS | : | NOT SUBJECT |
| PACKING | : | |
| CLASSIFICATION CODE | : | |
| DANGER LABEL TANKS | : | |
| DANGER LABEL PACKAGES | : | |
- 14.3 **RID (transport by rail) s**
- | | | |
|-----------------------|---|-------------|
| CLASS | : | NOT SUBJECT |
| PACKING | : | |
| CLASSIFICATION CODE | : | |
| DANGER LABEL TANKS | : | |
| DANGER LABEL PACKAGES | : | |
- 14.4 **ADNR (transport by inland waterways) s**
- | | | |
|-----------------------|---|-------------|
| CLASS | : | NOT SUBJECT |
| PACKING | : | |
| CLASSIFICATION CODE | : | |
| DANGER LABEL TANKS | : | |
| DANGER LABEL PACKAGES | : | |
- 14.5 **IMDG (maritime transport)**
- | | | |
|------------------|---|-------------|
| CLASS | : | NOT SUBJECT |
| SUB RISKS | : | |
| PACKING | : | |
| MFAG | : | |
| EMS | : | |
| MARINE POLLUTANT | : | |
- 14.6 **ICAO (air transport)**
- | | | |
|---|---|-------------|
| CLASS | : | NOT SUBJECT |
| SUB RISKS: | : | |
| PACKING | : | |
| PACKING INSTRUCTIONS PASSENGER AIRCRAFT | : | |
| PACKING INSTRUCTIONS CARGO AIRCRAFT | : | |
- 14.7 **Special precautions in connection with Transport**
- | | | |
|--|---|--|
| | : | not restricted for any mode of international transport |
|--|---|--|

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15. Regulatory information

Classification according to directives 67/548/EEC and 1999/45/EC

LABELLING NOT REQUIRED ACCORDING TO AVAILABLE INFORMATION

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

N.A. = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

Exposure limits:

TLV : Threshold Limit Value - ACGIH USA 2003
OES : Occupational Exposure Standards - United Kingdom 2003
MEL : Maximum Exposure Limits - United Kingdom 2003
MAK : Maximale Arbeitsplatzkonzentrationen - Germany 2002
TRK : Technische Richtkonzentrationen - Germany 2002
MAC : Maximale aanvaarde concentratie - The Netherlands 2003
VME : Valeurs limites de Moyenne d'Exposition - France 1999
VLE : Valeurs limites d'Exposition à court terme - France 1999
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium 2002
GWK : Grenswaarde kortstondige blootstelling - Belgium 2002
EC : Indicative occupational exposure limit values - directive 2000/39/EC
I : Inhalable fraction = **T**: Total dust = **E**: Einatembarer Aerosolanteil
R : Respirable fraction = **A**: Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

a:	aerosol	r:	rook/Rauch	(fume)
d:	damp (vapour)	st:	stof/Staub	(dust)
du:	dust	ve:	vezel (	fibre)
fa:	Faser (fibre)	va:	vapour	
fi:	fibre	om:	oil mist	
fu:	fume	on:	olienevel/Ölnebel	(oil mist)
p:	poussière (dust)	part:	particles	

Chronic toxicity:

K : List of the carcinogenic substances and processes - The Netherlands 2003

Full text of any R-phrases referred to under heading 2:

R11 : Highly flammable
R38 : Irritating to skin