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# Safety data sheet according to 1907/2006/EC, Article 31

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SECTION 1: Identifi	cation of the substance/mixture and	d of the company/undertaking
- 1.1 Product identifier		
No further relevant informa	es of the substance or mixture and uses ad tion available. nce / the mixture Silicate sealing	lvised against
<ul> <li>- 1.3 Details of the supplier</li> <li>- Manufacturer/Supplier:</li> <li>KISLING DEUTSCHLAN</li> <li>Drillberg</li> <li>D-97980 Bad Mergentheim</li> <li>Telefon: +49-(0) 791-407 2</li> </ul>	D GmbH	Telefax: +49-(0) 791-407 27-50
- Department issuing MSD	inable from: Safety Department S: ergo@kisling.com number: Swiss Toxicological Information (	Centre: +41-(0) 44-2 51 51 51
SECTION 2: Hazard	s identification	
Aerosol 3 H229 Pressur Eye Dam. 1 H318 Causes Skin Sens. 1 H317 May ca	o Regulation (EC) No 1272/2008 rised container: May burst if heated.	
<ul> <li>Labelling according to Re The product is classified an</li> <li>Hazard pictograms</li> </ul>	egulation (EC) No 1272/2008 d labelled according to the CLP regulation.	
GHS05 GHS07 GHS	08	
<ul> <li>Signal word Danger</li> <li>Hazard-determining comp Butan-2-one O,O',O''-(vinyl 2-butanone oxime 3-aminopropyltriethoxysilat</li> <li>Hazard statements H229 Pressurised container H318 Causes serious eye da H317 May cause an allergic H351 Suspected of causing</li> <li>Precautionary statements P210 Keep av</li> </ul>	silylidyne)trioxime ne :: May burst if heated. amage. c skin reaction. cancer.	flames and other ignition sources. No
smoking P251 Do not p		
present a	and easy to do. Continue rinsing. ately call a POISON CENTER/doctor.	
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P410+P412 P501	(Contd. of page 1) Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional info	6
8,2 % by mass of	of the contents are flammable
- 2.3 Other haza	ırds
- Results of PBT	and vPvB assessment
- PBT: Not appli	icable.
- <b>vPvB:</b> Not appl	licable.

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

- 3.2 Mixtures
- Description: Silicate sealing

- Dangerous components:		
CAS: 2224-33-1 EINECS: 218-747-8	Butan-2-one O,O',O"-(vinylsilylidyne)trioxime Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	1-<10%
CAS: 96-29-7 EINECS: 202-496-6 Index number: 616-014-00-0	2-butanone oxime Carc. 2, H351; Eye Dam. 1, H318; Acute Tox. 4, H312; Skin Sens. 1, H317	1-<10%
CAS: 919-30-2 EINECS: 213-048-4 Index number: 612-108-00-0 Reg.nr.: 01-2119480479-24-xxxx	3-aminopropyltriethoxysilane Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317	0,1-<1%
	In the propellant-mixture:	
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane Flam. Gas 1, H220; Press. Gas C, H280	
- Additional information: For the	wording of the listed risk phrases refer to section 16.	

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

#### - 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.

#### - After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact:

After contact with skin, wash immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

- After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- After swallowing:
- Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- 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.

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ECTION 5: Firefighting measures
<ol> <li>1 Extinguishing media uitable extinguishing agents:</li> <li>O2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.</li> <li>2 Special hazards arising from the substance or mixture an form explosive gas-air mixtures.</li> <li>ormation of toxic gases is possible during heating or in case of fire.</li> <li>3 Advice for firefighters</li> </ol>
rotective equipment: Vear self-contained respiratory protective device. o not inhale explosion gases or combustion gases. dditional information ool endangered receptacles with water spray.
ispose of fire debris and contaminated fire fighting water in accordance with official regulations.
ECTION 6: Accidental release measures
<ul> <li>1 Personal precautions, protective equipment and emergency procedures Vear protective equipment. Keep unprotected persons away. nsure adequate ventilation eep away from ignition sources. 2 Environmental precautions: o not allow product to reach sewage system or any water course. ofform respective authorities in case of seepage into water course or sewage system. 3 Methods and material for containment and cleaning up: nsure adequate ventilation. borb liquid components with liquid-binding material. ispose of the material collected according to regulations. 4 Reference to other sections umes can combine with air to form an explosive mixture. ee Section 7 for information on personal protection equipment. ee Section 10 for information on "stability and reactivity".</li></ul>
ECTION 7: Handling and storage 1 Precautions for safe handling nsure good ventilation/exhaustion at the workplace. nsure good interior ventilation, especially at floor level. (Fumes are heavier than air). formation about fire - and explosion protection: ressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electri ghts. Do not pierce or burn, even after use.
2 Conditions for safe storage, including any incompatibilities torage: equirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurised containers.

- Information about storage in one common storage facility: Store away from foodstuffs.

- Further information about storage conditions: Protect from heat and direct sunlight.

Store under lock and key and with access restricted to technical experts or their assistants only.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

- Maximum storage temperature: 30 °C

- Minimum storage temperature: 5 °C

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- 7.3 Specific end use(s) No further relevant information available.

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

- Additional information about design of technical facilities: No further data; see item 7.

96-29-7 2-	butanone	e oxime	
AGW (Germany) Long-t		Long-term value: 1 m	ng/m³, 0,3 ppm
		8(I);AGS, Y, H, Sh	
		Long-term value: 1 m	ng/m³, 0,3 ppm
74-98-6 pi	-	I 1 100	20 / 2 1000
AGW (Ge	rmany)	Long-term value: 180 4(II);DFG	00 mg/m³, 1000 ppm
106-97-8 k	outane		
AGW (Ge	rmany)	Long-term value: 240 4(II);DFG	00 mg/m <sup>3</sup> , 1000 ppm
DNELs			
919-30-2 3	3-aminop	ropyltriethoxysilane	
Oral	Akut, Sy	stemische Effekte	5 mg/kg (all)
	Langzeit	, Systemische Effekte	5 mg/kg bw/day (all)
Dermal	Akut, Sy	stemische Effekte	5 mg/kg bw (all)
			8,3 mg/kg bw (ber)
	Langzeit	, Systemische Effekte	5 mg/kg bw/day (all)
			8,3 mg/kg bw/day (ber)
Inhalative	Akut, Sy	stemische Effekte	17,4 mg/m <sup>3</sup> (all)
			59 mg/m <sup>3</sup> (ber)
	Langzeit	, Systemische Effekte	17 mg/m <sup>3</sup> (all)
			59 mg/m <sup>3</sup> (ber)
PNECs			
919-30-2 3	3-aminop	ropyltriethoxysilane	
PNEC Süß	Bwasser	0,33 mg/l (-)	
PNEC Me	erwasser	0,033 mg/l (-)	
PNEC Boo		0,04 mg/kg Boden (-)	
	-	ation of material %	
		-	it Values for possible hazards during processing:
96-29-7 2-			
AGW (Germany) Long-term valu 8(I);AGS, Y, H			ue: 1 mg/m <sup>3</sup> , 0,3 ppm H, Sh
- (European Union) Long-term valu		Long-term value	ue: 1 mg/m <sup>3</sup> , 0,3 ppm
67-56-1 m			
AGW (Ge	rmany)	Long-term value 4(II);DFG, EU	ue: 270 mg/m³, 200 ppm J, H, Y
		Jnion) Long-term value Skin	ue: 260 mg/m <sup>3</sup> , 200 ppm

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The lists valid during the making were used as basis.	(Contd. of page 4)
8.2 Exposure controls	
Personal protective equipment:	
General protective and hygienic measures:	
The usual precautionary measures are to be adhered to when handling chemicals.	
Keep away from foodstuffs, beverages and feed.	
Immediately remove all soiled and contaminated clothing	
Wash hands before breaks and at the end of work.	
Do not inhale gases / fumes / aerosols.	
Avoid contact with the eyes and skin.	
Respiratory protection:	
Use suitable respiratory protective device in case of insufficient ventilation.	
Filter A/P2	
Protection of hands:	
Protective gloves (EN 374)	
Check protective gloves prior to each use for their proper condition.	
The glove material has to be impermeable and resistant to the product/ the substance/	the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffu	
Material of gloves	U
Find below a list of appropriate protective gloves for chemical surrounding:	
Permeation time / penetration time: = 480 minutes(DIN EN 374):	
Naturlatex I, Nr. 0395 oder 0403	
Naturlatex II , Nr. 0706 oder 0708	
Chloropren Nitril II, Nr. 0717	
Chloropren Nitril I, Nr. 0727	
Chloropren, Nr. 0720, 0722, 0723, 0725 oder 0726	
Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836	
Nitril II, Nr. 0740, 0741, 0742 oder 0759	
Nitril III, Nr. 0743	
Nitril VI, Nr. 0754	
Nitril V, Nr. 0764	
Viton, Nr. 0890	
Butyl II, Nr. 0897	
Butyl, Nr. 0898	
of KCL company (e-mail: vertrieb@kcl.de).	
The recommendation is based exclusively on the chemical compatibility and the t	test according to EN374
under laboratory conditions.	
Requirements can vary according to the use. Therefore, please always take into according to the use.	ount the glove supplier's
recommendations.	
The selection of the suitable gloves does not only depend on the material, but also or	n further marks of quality
and varies from manufacturer to manufacturer. As the product is a preparation of	
resistance of the glove material can not be calculated in advance and has therefore to	
application.	L
Penetration time of glove material	
Permeation time / penetration time: see above (material of gloves)	
The exact break trough time has to be found out by the manufacturer of the protect	tive gloves and has to be
observed.	-
Eye protection: Safety glasses	
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SECTION 9: Physical and chemical properties		
- 9.1 Information on basic physical ar - General Information	nd chemical properties	
- Appearance:		
Form: Colour:	Pasty Red	
- Odour:	Characteristic	
- Odour threshold:	Not determined.	
- pH-value:	Not determined.	
- Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
- Flash point:	undetermined	
- Ignition temperature:		
Decomposition temperature:	Not determined.	
- Self-igniting:	Product is not self-igniting.	
- Danger of explosion:	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Buildup of explosive mixtures possible without sufficient ventilation.	
- Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
- Vapour pressure:	Not determined.	
- Density at 20 °C:	1,28 g/cm <sup>3</sup>	
- Relative density	Not determined.	
- Vapour density	Not determined.	
- Evaporation rate	Not applicable.	
- Solubility in / Miscibility with		
water:	Hydrolised.	
- Partition coefficient (n-octanol/wate	er): Not determined.	
- Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
- 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: Protect from heat and direct sunlight.

- 10.3 Possibility of hazardous reactions Danger of bursting.

- 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 products of decomposition if used and stored according to specifications.

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SECTIO	SECTION 11: Toxicological information			
- 11.1 Infor	mation on	toxicological effects		
- Acute toxi	•			
		evant for classification:		
96-29-7 2-				
Oral	LD50	930 mg/kg (rat)		
	LD50	>1000 mg/kg (rab)		
		> 4,83 mg/l (rat)		
106-97-8 b				
		658 mg/l (rat)		
	-	opyltriethoxysilane		
Oral	LD50	1490 - 2690 mg/kg (rat)		
Dermal	LD50	4076 mg/kg (rab) (EPA)		
<ul> <li>Serious ey Causes ser</li> <li>Respirator May cause</li> <li>Additiona No experir</li> <li>CMR effect Limited ev</li> <li>Germ cell</li> <li>Carcinoget Suspected</li> <li>Reproduct</li> <li>STOT-sing</li> <li>STOT-rep</li> </ul>	psion/irrita re damage, ious eye da ry or skin an allergic l toxicolog nentally fo cts (carcin idence of a mutageni- cnicity of causing tive toxici gle exposu peated exp	<ul> <li>ation Based on available data, the classification criteria are not met.</li> <li>firritation image. sensitisation e skin reaction. cical information: und toxicological data are available for this preparation. cogenity, mutagenicity and toxicity for reproduction) a carcinogenic effect. city Based on available data, the classification criteria are not met.</li></ul>		
- 12.1 Toxic	ity	cological information		
- Aquatic to				
	-	opyltriethoxysilane		
	-	(DA) (OECD TG 202)		
EC50/72 h	>1000 m	g/l (Algae) (OECD TG 201)		
LC0/96 h	>934 mg/	(1 (Danio rerio) (OECD TG 203)		
NOEC	-	(Algae) (OECD TG 201)		
- 12.3 Bioac - 12.4 Mobi - Additiona - General n	ccumulativ lity in soil l ecologica otes:	<ul> <li>degradability No further relevant information available.</li> <li>re potential No further relevant information available.</li> <li>No further relevant information available.</li> <li>il information:</li> <li>(German Regulation) (Self-assessment): hazardous for water</li> </ul>		

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach ground water, water course or undiluted sewage system.

- Water hazard class (German Regulation) is valid for the active agent.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.

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- **vPvB:** Not applicable.

- 12.6 Other adverse effects No further relevant information available.

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

- 13.1 Waste treatment methods

- **Recommendation** Disposal must be made according to official regulations.

- Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informa	tion
- 14.1 UN-Number - ADR, IMDG, IATA	UN1950
- 14.2 UN proper shipping name - ADR - IMDG - IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
- 14.3 Transport hazard class(es)	ALKOSOLS, Hammable
- ADR	
- Class	2 5F Gases.
- Label - IMDG, IATA	2.1
- Class - Label	2.1 2.1
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Warning: Gases.
- Danger code (Kemler): - EMS Number:	- F-D,S-U
- 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.
- Transport/Additional information:	
- ADR - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
- Transport category	2
- Tunnel restriction code	D
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- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity	
- UN "Model Regulation":	UN 1950 AEROSOLS, 2.1	

### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- National regulations:

- Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

Water hazard class (German Regulation) is valid for the active agent.

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### - Relevant phrases

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H351 Suspected of causing cancer.

#### - Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1: Flammable gases, Hazard Category 1 Aerosol 3: Flammable aerosols, Hazard Category 3

Press. Gas C: Gases under pressure: Compressed gas

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Corr. 1B. Skin corrosion/irritation, Hazard Category 1B Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

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