



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

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)




Revision: 03.12.2021

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

- **1.1 Product identifier**
- **Trade name:** **KEIM SILEX-OH**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Sealer based on silicic acid ester
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
KEIMFARBEN GMBH  
Keimstraße 16 / 86420 Diedorf  
Tel. +49 (0)821 4802-0  
Fax +49 (0)821 4802-210  
www.keim.com / info@keimfarben.de
- **Further information obtainable from:**  
Product safety department  
Telefon: 49(0)821/4802-138  
E-Mail: sdb.info@keimfarben.de
- **1.4 Emergency telephone number:**  
GBK GmbH Global Regulatory Compliance  
Emergency number: +49(0)6132/84463

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2	H225	Highly flammable liquid and vapour.
Acute Tox. 4	H332	Harmful if inhaled.
Eye Irrit. 2	H319	Causes serious eye irritation.
Repr. 1B	H360D	May damage the unborn child.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  
  
GHS02 GHS07 GHS08
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
tetraethyl silicate  
dioctyltin dilaurate  
butanone

(Contd. on page 2)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 1)

acetone

**Hazard statements**

H225 Highly flammable liquid and vapour.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.

H360D May damage the unborn child.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing mist/vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P233 Keep container tightly closed.

P243 Take action to prevent static discharges.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P314 Get medical advice/attention if you feel unwell.

P370+P378 In case of fire: Use CO<sub>2</sub>, sand, extinguishing powder to extinguish.

P405 Store locked up.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with regional/national regulations.

**Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

Restricted to professional users.

**2.3 Other hazards****Results of PBT and vPvB assessment**• **PBT:** Not applicable• **vPvB:** Not applicable**Determination of endocrine-disrupting properties**

78-93-3 butanone

List II

**SECTION 3: Composition/information on ingredients****3.2 Mixtures**• **Description:** Tetraethylsilicate (monomer/oligomer blend) in organic solvent**Dangerous components:**

CAS: 78-10-4 EINECS: 201-083-8 Index number: 014-005-00-0 Reg.nr.: 01-2119496195-28	tetraethyl silicate ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	>20-<25%
CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43	butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	>15-<20%

(Contd. on page 3)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 2)

CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	>5-<10%
CAS: 3648-18-8 EINECS: 222-883-3 Reg.nr.: 01-2119979527-19-XXXX	dioctyltin dilaurate ⚠ Repr. 1B, H360D; STOT RE 1, H372	≥0.5-<1%

**SVHC**

3648-18-8 dioctyltin dilaurate

**Additional information:** For the wording of the listed hazard 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.

Seek medical treatment in case of complaints.

If pregnant women have been exposed to the product, it is essential to consult a doctor.

When seeing the doctor we suggest to present this safety data sheet.

**After inhalation:**

Take affected people into fresh air and keep quiet.

Seek medical treatment in case of complaints.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Do not use solvents or thinners.

If skin irritation continues, consult a doctor.

**After eye contact:**

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

**After swallowing:**

Rinse mouth and throat well with water.

Do not induce vomiting; call for medical help immediately.

**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:** Extinguishing powder, alcohol resistant foam, CO<sub>2</sub>, sand.**For safety reasons unsuitable extinguishing agents:** Water**5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

carbon oxide (CO<sub>x</sub>)

(Contd. on page 4)

DEN



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

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 3)

silicon dioxid (SiO<sub>2</sub>)

Dangerous decomposition products: ethyl alcohol.

· **5.3 Advice for firefighters**

· **Specila protective equipment:** Wear self-contained respiratory protective device.

· **Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

In case of fire do not breathe smoke, fumes and vapours.

### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with skin and eyes.

Do not inhale fumes.

Respect the protection rules (see section 7 a. 8).

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected people away.

· **6.2 Environmental precautions:**

Do not allow product to reach soil, sewage system or any water course.

Follow local governmental rules and regulations.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Exhaust vapours.

Ensure adequate ventilation.

· **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**

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

Do not inhale aerosols.

Ensure good ventilation/exhaustion at the workplace.

See item 8 (8.2) for information about suitable protective equipment and technical precautions.

Respect the protection rules.

· **Information about fire - and explosion protection:**

Fumes can combine with air to form an explosive mixture.

Cool endangered receptacles with water spray.

(Contd. on page 5)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 4)

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Keep in the original containers in a cool and dry place.

Store only in unopened original receptacles.

Prevent any seepage into the ground.

**Information about storage in one common storage facility:**

Reacts with: water, basic substances and acids. Reaction causes the formation of: ethanol.

**Further information about storage conditions:**

Protect from heat and direct sunlight.

Protect from frost.

Keep container tightly sealed.

Protect from humidity and water.

**Storage class: 3****7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****78-10-4 tetraethyl silicate**

AGW (Germany) Long-term value: 12 mg/m<sup>3</sup>, 1.4 ppm  
1(I);AGS

**78-93-3 butanone**

AGW (Germany) Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
1(I);DFG, EU, H, Y

**67-64-1 acetone**

AGW (Germany) Long-term value: 1200 mg/m<sup>3</sup>, 500 ppm  
2(I);AGS, DFG, EU, Y

**64-17-5 ethanol**

AGW (Germany) Long-term value: 380 mg/m<sup>3</sup>, 200 ppm  
4(II);DFG, Y

**DNELs****78-10-4 tetraethyl silicate**

Dermal	Long-term - systemic effects	8.4 mg/kg bw/day (consumer) 12.1 mg/kg bw/day (worker)
	Acute - systemic effects	8.4 mg/kg/day (consumer) 12.1 mg/kg/day (worker)
Inhalative	Acute - systemic effects	25 mg/m <sup>3</sup> (consumer) 85 mg/m <sup>3</sup> (worker)

(Contd. on page 6)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 5)

Acute - local effects	25 mg/m <sup>3</sup> (consumer) 85 mg/m <sup>3</sup> (worker)
Long-term - systemic effects	25 mg/m <sup>3</sup> (consumer) 85 mg/m <sup>3</sup> (worker)
Long-term - local effects	25 mg/m <sup>3</sup> (consumer) 85 mg/m <sup>3</sup> (worker)

**· PNECs**

Product of hydrolysis: ethanol

**64-17-5 ethanol**

Aquatic compartment - freshwater	0.192 mg/l (freshwater)
Aquatic compartment - marine water	0.0192 mg/l (marine water)
Aquatic compartment - water, intermittent releases	10 mg/l (not specified)
Aquatic compartment - sediment in freshwater	0.18 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.018 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.05 mg/kg dw (soil)
Sewage treatment plant	4,000 mg/l (sewage treatment plant)

**· Ingredients with biological limit values:****78-93-3 butanone**

BGW (Germany)	5 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 2-Butanon
---------------	---

**67-64-1 acetone**

BGW (Germany)	80 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton
---------------	---

**· Additional information:** The lists valid during the making were used as basis.**· 8.2 Exposure controls****· Individual protection measures, such as personal protective equipment****· General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

**· Respiratory protection:** In case of long or strong exposure: gas mask filter ABEK.**· Hand protection** Protective gloves**· Material of gloves**

suitable material e.g.:

Butyl rubber, BR

Recommended thickness of the material:  $\geq 0.5$  mm

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

(Contd. on page 7)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 6)

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**

Value for the permeation: level  $\geq 3$  (60 min)

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection** Tightly sealed goggles
- **Body protection:** Impervious protective clothing
- **Environmental exposure controls**

See Section 12 and 6.2

No further relevant information available.

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties****General Information**

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Strong
· <b>Odour threshold:</b>	Not determined
· <b>Melting point/freezing point:</b>	<-40 °C
· <b>Boiling point or initial boiling point and boiling range</b>	56 °C
· <b>Flammability</b>	Highly flammable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	1.3 Vol %
· <b>Upper:</b>	23 Vol %
· <b>Flash point:</b>	2 °C (DIN 51755)
· <b>Auto-ignition temperature:</b>	230 °C
· <b>Decomposition temperature:</b>	Not applicable
· <b>pH</b>	Not applicable
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Hydrolised.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not applicable
· <b>Vapour pressure at 20 °C:</b>	233 hPa
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	0.9-1.0* g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined

(Contd. on page 8)

DEN



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

Trade name: KEIM SILEX-OH

(Contd. of page 7)

· Vapour density	Not applicable.
· 9.2 Other information	Explosion limits for released ethanol: 3,5 - 15% (V). * The values are for freshly produced material and may change with the time.
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Explosive properties:	Product is not explosive. However, the formation of explosive air/vapour mixtures is possible.
· Change in condition	
· Softening point/range	
· Oxidising properties:	Not applicable
· Evaporation rate	Not applicable
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with water.
- **10.4 Conditions to avoid** Humidity, heat, open flames and other sources of ignition.

(Contd. on page 9)





## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 8)

- **10.5 Incompatible materials:**  
Reacts with: water, basic substances and acids. Reaction causes the formation of: alcohols.
- **10.6 Hazardous decomposition products:**  
In case of fire, the following can be released:  
Carbon oxides (COx)  
silicon dioxid (SiO<sub>2</sub>)  
ethyl alcohol (hydrolysis)  
No hazardous decomposition products if stored and handled as prescribed.
- **Additional information:** In use may form flammable/explosive vapour-air mixture.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if inhaled.

- **LD/LC50 values relevant for classification:**

ATE mix	>2,000 mg/kg (orally)
ATE mix (4h)	4.7 mg/l (inhalative)

- **Skin corrosion/irritation**  
Repeated exposure may cause skin dryness or cracking.  
Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **during inhalation:**  
Harmful by inhalation  
Vapours may cause drowsiness and dizziness.  
Irritant effect possible.
- **during swallowing:** Irritant effect possible
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** May damage the unborn child.
- **STOT-single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.
- **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.
- **Other information (about experimental toxicology):**  
Experimental analysis are not available.  
The product was not tested. The statements on toxicology have been derived from the properties of the individual components.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

78-93-3	butanone
---------	----------

List II

DEN

(Contd. on page 10)



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

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

Trade name: KEIM SILEX-OH

(Contd. of page 9)

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability**  
Silicone content: Contact with water liberates: silicic acid and ethanol.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **12.6 Endocrine disrupting properties**  
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Other information:**  
In appropriate sewage treatment plants an extensively elimination off water due to biological degrading, mechanical separation and stripping.
- **Additional ecological information:**
- **AOX-indication:**  
Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**  
According to our current data base the product does not consist of any heavy metals or substances of EU-directives 76/464/EWG.
- **General notes:**  
The product may not be released into the environment without control.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
At present there are no ecotoxicological assessments.  
The statements on ecotoxicology have been derived from the properties of the individual components.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.

- **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
-----------	--

- **Uncleaned packaging:**
- **Recommendation:**  
Disposal must be made according to official regulations.  
Packaging may be reused or recycled after cleaning.

(Contd. on page 11)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)


Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 10)

Packagings that may not be cleansed are to be disposed of in the same manner as the product.  
· **Recommended cleansing agents:** Water, if necessary with cleansing agents.

### SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name · ADR · IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, acetone), special provision 640D FLAMMABLE LIQUID, N.O.S. (Methyl ethyl ketone, acetone)
· 14.3 Transport hazard class(es) · ADR, IMDG, IATA	 · Class 3 Flammable liquids. · Label 3
· 14.4 Packing group · ADR, IMDG, IATA	II
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user · Hazard identification number (Kemler code): · EMS Number: · Stowage Category	Warning: Flammable liquids. 33 F-E, S-E B
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E

(Contd. on page 12)

DEN



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 11)

· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (METHYL ETHYL KETONE, ACETONE), 3, II

### 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**  
For information on labelling please refer to section 2 of this document.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

**· LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

**· Regulation (EU) No 649/2012**

3648-18-8 diocetyl tin dilaurate

Annex I Part 1

**· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**· REGULATION (EU) 2019/1148****· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**· Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

67-64-1 acetone

**· Regulation (EC) No 273/2004 on drug precursors**

78-93-3 butanone

3

67-64-1 acetone

3

**· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

78-93-3 butanone

3

(Contd. on page 13)

DEN



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 12)

67-64-1 acetone

3

- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
  - TRGS 200 (Germany)
  - TRGS 500 (Germany)
  - TRGS 510 (Germany)
  - TRGS 900 (Germany)
- **Substances of very high concern (SVHC) according to REACH, Article 57**

3648-18-8	dioctyltin dilaurate
-----------	----------------------
- **Product-Code/Giscode:** ESI20
- **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**
  - H225 Highly flammable liquid and vapour.
  - H226 Flammable liquid and vapour.
  - H319 Causes serious eye irritation.
  - H332 Harmful if inhaled.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H360D May damage the unborn child.
  - H372 Causes damage to organs through prolonged or repeated exposure.
  - EUH066 Repeated exposure may cause skin dryness or cracking.
- **Department issuing SDS:** KEIMFARBEN Germany, Product safety department
- **Version number of previous version:** 12.0
- **Abbreviations and acronyms:**
  - ADR: Accord relatif au transport international 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)
  - TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
  - 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
  - SVHC: Substances of Very High Concern
  - vPvB: very Persistent and very Bioaccumulative
  - AGW: Arbeitsplatzgrenzwert (Germany)

(Contd. on page 14)

DEN



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

Printing date 03.12.2021

Version number 13.0 (replaces version 12.0)

Revision: 03.12.2021

**Trade name: KEIM SILEX-OH**

(Contd. of page 13)

EC10: Effective concentration at 10% mortality rate.

EC50: Half maximal effective concentration.

LC10: Lethal concentration at 10% mortality rate.

NOEC: No observed effect concentration.

REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

· \* **Data compared to the previous version altered.**

DEN