



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

Printing date 01.08.2017

Version number 12



Revision: 01.08.2017

### 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:**  
KEIM MINERAL PAINTS LTD  
Santok Building / Deer Park Way, Donnington Wood GB-Telford, Shropshire TF2 7NA  
Tel +44 1952 231 250 / Fax +44 1952 231 251  
www.keim.com / sales@keimpaints.co.uk
- **Further information obtainable from:**  
David Pratt  
Telefon: +44 1952 231250  
E-Mail: sales@keimpaints.co.uk
- **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.
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
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
tetraethyl silicate
- **Hazard statements**

H225	Highly flammable liquid and vapour.
H332	Harmful if inhaled.
H319	Causes serious eye irritation.

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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.
- P260 Do not breathe 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 for extinction: Water haze, CO<sub>2</sub>, alcohol resistant foam.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

**2.3 Other hazards****Results of PBT and vPvB assessment**

- PBT:** Not applicable.
- vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures****Description:** Tetraethylsilicate (monomer/oligomer blend) in org. 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	15-20%
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	5-10%
CAS: 3648-18-8 EINECS: 222-883-3	dioctyltin dilaurate ⚠ Repr. 2, H361fd; STOT RE 2, H373; ⚠ Eye Dam. 1, H318; Aquatic Chronic 3, H412	<1%

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

##### · **After inhalation:**

Take affected persons 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:**

Water haze, extinguishing powder, alcohol resistant foam, CO<sub>2</sub>, sand.

##### · **For safety reasons unsuitable extinguishing agents:**

Water spray  
Water with full jet

#### · 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>)  
silicon dioxid (SiO<sub>2</sub>)  
Dangerous decomposition product: ethyl alcohol.

#### · 5.3 Advice for firefighters

· **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.

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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).

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

#### · **6.2 Environmental precautions:**

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

Follow local governmental rules and regulations.

Keep contaminated washing water and dispose of appropriately.

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

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.

See item 8 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.

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.

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- **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:**

**78-93-3 butanone**

WEL	Short-term value: 899 mg/m <sup>3</sup> , 300 ppm Long-term value: 600 mg/m <sup>3</sup> , 200 ppm Sk, BMGV
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**67-64-1 acetone**

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
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· **DNELs**

**78-10-4 tetraethyl silicate**

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

· **PNECs**

**78-10-4 tetraethyl silicate**

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)

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Sewage treatment plant

4,000 mg/l (sewage treatment plant)

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

BMGV	70 µmol/L
	Medium: urine
	Sampling time: post shift
	Parameter: butan-2-one

- **Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Wash hands before breaks and at the end of work.

Immediately remove all soiled and contaminated clothing

- **Respiratory protection:** In case of long or strong exposure: das mask filter ABEK.

- **Protection of hands:** 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 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 374 part III 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 protection:** Tightly sealed goggles

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment** See Section 12 and 6.2

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information****Appearance:****Form:**

Fluid

**Colour:**

Colourless

**Odour:**

Strong

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· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not applicable
· <b>Change in condition</b> <b>Melting point/freezing point:</b>	<-40°C
<b>Initial boiling point and boiling range:</b>	56°C
· <b>Flash point:</b>	2°C (DIN 51755)
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Ignition temperature:</b>	230°C (DIN 51794)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· <b>Explosion limits:</b> <b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	23 Vol %
· <b>Oxidising properties</b>	Not applicable.
· <b>Vapour pressure at 20°C:</b>	233 hPa
· <b>Density at 20°C:</b>	0.9-1.0* g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water at 20°C:</b>	235 g/l
· <b>Partition coefficient: n-octanol/water:</b>	Not applicable.
· <b>Viscosity:</b> <b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>9.2 Other information</b>	Explosion limits for released ethanol: 3,5 - 15% (V). * The values are for freshly produced material and may change with the time.

### 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

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- **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 oxide (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 toxicological effects

- **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 (inhalation)

#### **78-10-4 tetraethyl silicate**

Oral	LD50	>2,500 mg/kg (rat)
Dermal	LD50	5,878 mg/kg (rabbit)
	NOAEL	28 mg/kg (rat) (OECD 422)

#### **78-93-3 butanone**

Oral	LD50	3,300 mg/kg (rat)
Dermal	LD50	5,000 mg/kg (rabbit)

#### **67-64-1 acetone**

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	39 mg/l (rat)

#### **3648-18-8 dioctyltin dilaurate**

Oral	LD50	6,450 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **during inhalation:**  
Harmful by inhalation  
Irritant effect possible.  
Vapours may cause drowsiness and dizziness.
- **during swallowing:** Irritant effect possible
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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- **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.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** not applicable
- **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**  
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.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### **78-10-4 tetraethyl silicate**

EC 50/48h (dynamic)	>75 mg/l (daphnia) (OECD 202)
EC 50/3h (static)	>100 mg/l (sewage sludge)
EC 50/72 h (static)	>100 mg/l (algae) (OECD 201)
LC 50/96 h	>245 mg/l (freshwater fish) (OECD 203)

#### · 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.

#### · Ecotoxicological 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:

At present there are no ecotoxicological assessments.

The product may not be released into the environment without control.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.

### 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**

07 01 99	wastes not otherwise specified
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- **Uncleaned packaging:**

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

- **Recommended cleansing agents:** Water, if necessary with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN-Number**

- **ADR, IMDG, IATA**

UN1993

- **14.2 UN proper shipping name**

- **ADR**

1993 FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE), ACETONE), special provision 640D

- **IMDG, IATA**

FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (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**

Warning: Flammable liquids.

- **Danger code (Kemler):**

33

- **EMS Number:**

F-E,S-E

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· <b>Stowage Category</b>	B
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</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>Transport category</b>	2
· <b>Tunnel restriction code</b>	D/E
· <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 (ETHYL METHYL KETONE (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
- **National regulations:**
- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**  
REACH Annex XVII: This product contains dioctyltin dilaurate > 0.1 wt -%. Annex XVII, entry 20 of Regulation 1907/2006, must be considered.
- **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** not applicable

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**· 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.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

**· Department issuing SDS:** KEIMFARBEN Germany, Product safety department**· 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)
- 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
- 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 Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Repr. 2: Reproductive toxicity – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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