



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

Printing date 02.06.2022



Version number 14.0 (replaces version 13.0)

Revision: 02.06.2022

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

- **1.1 Product identifier**
- **Trade name: KEIM ECOTEC**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Hydrophobing agent concentrate
- **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. 3 H226 Flammable liquid and vapour.
Eye Dam. 1 H318 Causes serious eye damage.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
- **Hazard pictograms**

GHS02 GHS05
- **Signal word** Danger
- **Hazard-determining components of labelling:**
Polydimethylsiloxane with aminoalkyl groups
Propionic acid
- **Hazard statements**
H226 Flammable liquid and vapour.
H318 Causes serious eye damage.

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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.
- P260 Do not breathe mist/vapours/spray.
- 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.
- P315 Get immediate medical advice/attention.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P370+P378 In case of fire: Use CO₂, sand, extinguishing powder to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with regional/national regulations.

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

556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

vPvB:

556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Description:** Alkylsilicone resin with alkoxy groups**Dangerous components:**

CAS: 35435-21-3 EINECS: 252-558-1 Reg.nr.: 01-2119555666-27-XXXX	Alkyltriethoxysilane Flam. Liq. 3, H226	>50-<100%
CAS: 67923-07-3 Polymer	Polydimethylsiloxane with aminoalkyl groups Eye Dam. 1, H318; Skin Irrit. 2, H315	>10-<20%

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		(Contd. of page 2)
CAS: 79-09-4 EINECS: 201-176-3 Index number: 607-089-00-0 Reg.nr.: 01-2119486971-24-XXXX	Propionic acid ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ STOT SE 3, H335 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 % STOT SE 3; H335: C ≥ 10 %	≥1-<5%
CAS: 556-67-2 EINECS: 209-136-7 Index number: 014-018-00-1	octamethylcyclotetrasiloxane ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361f; ⚠ Aquatic Chronic 1, H410 PBT; vPvB	≥0.1-<0.3%
CAS: 541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	≥0.1-<0.3%
· SVHC		
556-67-2	octamethylcyclotetrasiloxane	
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	
· 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.

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

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

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

· **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.

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- **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, CO₂, sand.
- **For safety reasons unsuitable extinguishing agents:** 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_x)
Nitrogen oxides (NO_x)
silicon dioxid (SiO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Specila protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** 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**
Respect the protection rules (see section 7 a. 8).
Keep uninvolved people away.
Ensure adequate ventilation
Do not inhale fumes.
Avoid contact with skin and eyes.
Keep away from ignition sources.
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.
Inform respective authorities in case of seepage into water course or sewage system.
Follow local governmental rules and regulations.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Danger of slipping!
Absorb with non-combustible liquid-binding material (sand, earth, diatomite, vermiculite).
Dispose of the material collected according to regulations.
Clear contaminated areas thoroughly.
- **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.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Do not inhale aerosols.

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

Respect the protection rules.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Cool endangered receptacles with water spray.

· 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.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Store in a cool place.

Store in dry conditions.

Protect from frost.

Keep container tightly sealed.

· 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:

79-09-4 Propionic acid

WEL	Short-term value: 46 mg/m ³ , 15 ppm
	Long-term value: 31 mg/m ³ , 10 ppm

· DNELs

35435-21-3 Alkyltriethoxysilane

Oral	Long-term - systemic effects	9.5 mg/kg bw/day (consumer)
	Acute - systemic effects	19 mg/kg/day (consumer)
Dermal	Long-term - systemic effects	13.4 mg/kg bw/day (worker)
	Long-term - systemic effects	9.5 mg/kg bw/day (consumer)
	Acute - systemic effects	19 mg/kg/day (worker)
	Acute - systemic effects	67.8 mg/m ³ (consumer)
Inhalative	Acute - systemic effects	67.8 mg/m ³ (consumer)
	Long-term - systemic effects	45 mg/m ³ (worker)

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	Long-term - systemic effects	11.3 mg/m ³ (consumer)
79-09-4 Propionic acid		
Dermal	Long-term - local effects	0.26 mg/kg bw/day (worker)
Inhalative	Acute - systemic effects	62 mg/m ³ (worker)
	Acute - local effects	62 mg/m ³ (worker)
	Long-term - systemic effects	31 mg/m ³ (worker)
	Long-term - local effects	31 mg/m ³ (worker)

· PNECs**35435-21-3 Alkyltriethoxysilane**

Aquatic compartment - freshwater	0.64 mg/l (freshwater)
Aquatic compartment - marine water	0.064 mg/l (marine water)
Aquatic compartment - water, intermittent releases	6.4 mg/l (not specified)
Aquatic compartment - sediment in freshwater	4.3 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.43 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.48 mg/kg dw (soil)
Sewage treatment plant	1 mg/l (sewage treatment plant)
Oral secondary poisoning	10 mg/kg food (not specified)

79-09-4 Propionic acid

Aquatic compartment - freshwater	0.5 mg/l (freshwater)
Aquatic compartment - marine water	0.05 mg/l (marine water)
Aquatic compartment - water, intermittent releases	5 mg/l (not specified)
Aquatic compartment - sediment in freshwater	1.86 mg/kg sed dw (sediment fresh water)
Aquatic compartment - sediment in marine water	0.186 mg/kg sed dw (sediment marine water)
Terrestrial compartment - soil	0.1258 mg/kg dw (soil)
Sewage treatment plant	5 mg/l (sewage treatment plant)

· 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:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Do not inhale aerosols.

· Respiratory protection:

- Respiratory protection in case of aerosol or mist formation.
- Combination filter A/P
- 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

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Recommended thickness of the material: ≥ 0.3 mm

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 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 materialValue for the permeation: level ≥ 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:** Protective work 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****· Physical state**

Fluid

· Colour:

Yellowish

· Odour:

Weak, characteristic

· Odour threshold:

Not determined

· Melting point/freezing point:

Not determined

· Boiling point or initial boiling point and boiling range

Not determined

· Flammability

Not applicable

· Lower and upper explosion limit**· Lower:**

Not determined.

· Upper:

Not determined

· Flash point:

25 °C (DIN 53213)

· Ignition temperature:

265 °C

· Decomposition temperature:

Not determined

· pH at 25 °C

5-6 (100%)

· Viscosity:**· Kinematic viscosity**

Not determined

· Solubility**· water:**

Fully miscible

· Partition coefficient n-octanol/water (log value)

Not applicable

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· Vapour pressure:	(75°C) 311 hPa (50 °C) 103 hPa
· Density and/or relative density	
· Density at 20 °C:	0.9-1* g/cm ³ (DIN 51757)
· Relative density	(25 °C) 0.9-1.0
· 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.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, the formation of explosive air/vapour mixtures is possible. II B
· Change in condition	
· 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	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.

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- **10.2 Chemical stability** Stable under normal conditions of storage and use.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts slowly with: water. The reaction is the formation of: ethanol. This leads to a reduction of the flash point.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
In case of fire, the following can be released:
Carbon oxides (COx)
Nitrogen oxides (NOx)
silicon dioxid (SiO₂)
Harmful vapours
No hazardous decomposition products if stored and handled as prescribed.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**
In animal experiments with similar products, there was no evidence of a specific hazard from aerosol inhalation. However, inhalation of respirable aerosol should be avoided.

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>0.72 mg/l /Aerosol (rat) (Analogie)

35435-21-3 Alkyltriethoxysilane

Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50/4 h	>11.2 mg/l (rat) (OECD 403) Aerosol
	NOAEL	≥1,000 mg/kg (rat) (Analogie)

- **Skin corrosion/irritation**
not irritating on rabbit
Frequent persistent contact with the skin may cause skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **during inhalation:** Irritant effect possible.
- **during swallowing:** Irritant effect possible
- **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.
- **Subacute to chronic toxicity:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable

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11.2 Information on other hazards**Endocrine disrupting properties**

556-67-2	octamethylcyclotetrasiloxane	List II, III
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	List II

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:**

No test data are available for the total product. D4 is an unavoidable impurity in silicone polymer production and leads to adverse effects on aquatic organisms under laboratory conditions. It could be shown experimentally that, taking into account the silicone/water partition equilibrium, no concentration can be reached in water from a polysiloxane matrix containing up to 3% D4 that would lead to effects in an OECD chronic ecotoxicity test. Accordingly, up to this limit, D4 does not contribute to a hazard from silicone polymers.

35435-21-3 Alkyltriethoxysilane

NOEC	32 mg/l (daphnia) (21d)
EC 50/3h	>100 mg/l (sewage sludge)
LC 50/96 h	>100 mg/l (fish) (OECD 203)

12.2 Persistence and degradability Moderately /partly biodegradable**12.3 Bioaccumulative potential** Non significant accumulation in organisms**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:**

556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

vPvB:

556-67-2	octamethylcyclotetrasiloxane
541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects**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.

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The statements on ecotoxicology have been derived from the properties of the individual components.

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

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

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 02 16*	waste containing hazardous silicones
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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 or ID number**

· **ADR, IMDG, IATA** UN1993

· **14.2 UN proper shipping name**

· **ADR** 1993 FLAMMABLE LIQUID, N.O.S. (Alkyltriethoxysilane)

· **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (Alkyltriethoxysilane)

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**



· **Class** 3 Flammable liquids.

· **Label** 3

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:**

· **Marine pollutant:** No

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Hazard identification number (Kemler code):** 30

· **EMS Number:** F-E,S-E

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· Stowage Category	A
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ALKYLTRIEHOXYSILANE), 3, III

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:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **Please note:**
TRGS 200 (Germany)
TRGS 500 (Germany)

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TRGS 510 (Germany)
TRGS 900 (Germany)**Substances of very high concern (SVHC) according to REACH, Article 57**

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541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

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

H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H361f Suspected of damaging fertility.
H410 Very toxic to aquatic life with long lasting effects.

Department issuing SDS: KEIMFARBEN Germany, Product safety department**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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK 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.
UK REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)
Flam. Liq. 3: Flammable liquids – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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