



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

Printing date 16.03.2023



Version number 2.1 (replaces version 2.0)

Revision: 16.03.2023

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

- **1.1 Product identifier**
- **Trade name: KEIM CONCRETAL-CLEANER**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Cleaning agent for concrete and render surfaces.
- **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**  
Acute Tox. 4 H302 Harmful if swallowed.  
Acute Tox. 4 H312 Harmful in contact with skin.  
Skin Corr. 1B H314 Causes severe skin burns and eye damage.  
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**  
  
GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Hexafluorosilicic acid  
Isotridecanol, ethoxylated ( $\geq 2,5$  EO)  
hydrofluoric acid
- **Hazard statements**  
H302+H312 Harmful if swallowed or in contact with skin.

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H314 Causes severe skin burns and eye damage.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

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

**Additional information:**

Restricted to professional users.

**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:** Cleaning agent based on fluorosilicic acid.**Dangerous components:**

CAS: 16961-83-4 EINECS: 241-034-8 Index number: 009-011-00-5 Reg.nr.: 01-2119488906-19-XXXX	Hexafluorosilicic acid ⚠ Skin Corr. 1B, H314	17.34%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	≤2.5%
CAS: 69011-36-5 EC number: 931-138-8	Isotridecanol, ethoxylated (≥ 2,5 EO) ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	≤2.5%
CAS: 7664-39-3 EINECS: 231-634-8 Index number: 009-003-00-1	hydrofluoric acid ⚠ Acute Tox. 2, H300; Acute Tox. 1, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1A, H314	0.25%

**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.

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- When seeing the doctor we suggest to present this safety data sheet.
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
Keep affected person warm and quiet.
  - **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Do not use solvents or thinners.  
Rub in Ca-gluconate solution or Ca-gluconate gel immediately.  
Seek medical treatment.
  - **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.  
Calcium gluconate solution.
  - **After swallowing:**  
Rinse mouth and throat well with water.  
Do not induce vomiting; call for medical help immediately.  
give to drink calcium gluconate solution
  - **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:**  
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Hydrogen fluoride (HF)  
silicon tetrafluoride  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Special protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.
- **Additional information**  
Cool endangered receptacles with water spray.  
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**  
Wear protective clothing.  
Keep people at a distance and stay on the windward side.  
Avoid contact with skin and eyes.

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- **6.2 Environmental precautions:**
  - Do not allow product to reach soil, sewage system or any water course.
  - Follow local governmental rules and regulations.
  - Inform respective authorities in case of seepage into water course or sewage system.
  - Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Fill in labelled, lockable containers.
  - Use neutralising agent.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
  - 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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  - Avoid contact with skin and eyes.
  - Do not inhale aerosols.
  - Keep receptacles tightly sealed.
  - 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:**
  - The product is not flammable.
  - No special measures required.
- **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.
  - Drip pan to be provided.
- **Information about storage in one common storage facility:**
  - Do not store together with alkalis (caustic solutions).
  - Store away from metals.
- **Further information about storage conditions:**
  - Protect from frost.
  - Keep container tightly sealed.
  - Protect from heat and direct sunlight.
- **Storage class:** 8B
- **7.3 Specific end use(s)** No further relevant information available.

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

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**64-17-5 ethanol**

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

**7664-39-3 hydrofluoric acid**

WEL Short-term value: 2.5 mg/m<sup>3</sup>, 3 ppm  
Long-term value: 1.5 mg/m<sup>3</sup>, 1.8 ppm

· **DNELs**

**16961-83-4 Hexafluorosilicic acid**

Oral	Long-term - systemic effects	0.01 mg/kg bw/day (consumer)
	Acute - systemic effects	0.01 mg/kg/day (consumer)
Inhalative	Acute - systemic effects	0.04 mg/m <sup>3</sup> (consumer)
	Acute - local effects	3.125 mg/m <sup>3</sup> (worker)
	Acute - local effects	1.56 mg/m <sup>3</sup> (consumer)
	Long-term - systemic effects	1.875 mg/m <sup>3</sup> (worker)
	Long-term - systemic effects	0.04 mg/m <sup>3</sup> (consumer)
	Long-term - local effects	1.56 mg/m <sup>3</sup> (consumer)

**64-17-5 ethanol**

Oral	Long-term - systemic effects	87 mg/kg bw/day (consumer)
Dermal	Long-term - systemic effects	343 mg/kg bw/day (worker)
	Long-term - systemic effects	206 mg/kg bw/day (consumer)
Inhalative	Acute - local effects	1,900 mg/m <sup>3</sup> (worker)
	Acute - local effects	950 mg/m <sup>3</sup> (consumer)
	Long-term - systemic effects	950 mg/m <sup>3</sup> (worker)
	Long-term - systemic effects	114 mg/m <sup>3</sup> (consumer)

· **PNECs**

**16961-83-4 Hexafluorosilicic acid**

Aquatic compartment - freshwater	0.9 mg/l (Freshwater)
Aquatic compartment - marine water	0.9 mg/l (Seawater)
Terrestrial compartment - soil	11 mg/kg dw (soil)
Sewage treatment plant	51 mg/l (Sewage treatment plant)

**64-17-5 ethanol**

Aquatic compartment - freshwater	0.96 mg/l (Freshwater)
Aquatic compartment - marine water	0.79 mg/l (Seawater)
Aquatic compartment - water, intermittent releases	2.75 mg/l (not specified)
Aquatic compartment - sediment in freshwater	3.6 mg/kg sed dw (Freshwater sediment)
Aquatic compartment - sediment in marine water	2.9 mg/kg sed dw (Marine sediment)

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Terrestrial compartment - soil

0.63 mg/kg dw (soil)

Sewage treatment plant

580 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:**
  - Avoid contact with the eyes and skin.
  - Do not inhale aerosols.
  - Wash hands before breaks and at the end of work.
  - Immediately remove all soiled and contaminated clothing.
- **Respiratory protection:**
  - Use suitable respiratory protective device only when aerosol or mist is formed.
  - Combination filter B-P2
- **Hand protection** Acid resistant gloves
- **Material of gloves**
  - suitable material e.g.:
  - Chloroprene rubber, CR
  - Recommended thickness of the material:  $\geq 0.5$  mm
  - Natural rubber, NR
  - Recommended thickness of the material:  $\geq 0.5$  mm
  - Fluorocarbon rubber (Viton)
  - Recommended thickness of the material:  $\geq 0.7$  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  $\geq 6$  (480 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
  - if applicable face protection
- **Body protection:** Acid resistant protective clothing
- **Environmental exposure controls**
  - See Section 12 and 6.2
  - No further relevant information available.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### General Information

· Physical state	Fluid
· Colour:	transparent colourless
· Odour:	Pungent
· Odour threshold:	Not determined
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and boiling range	~100 °C
· Flammability	Not applicable
· Lower and upper explosion limit	
· Lower:	Not applicable
· Upper:	Not applicable
· Flash point:	Not applicable
· Ignition temperature:	Not determined
· Decomposition temperature:	Not determined
· pH at 20 °C	~1
· Viscosity:	
· Kinematic viscosity	Not determined
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible
· Partition coefficient n-octanol/water (log value)	Not applicable
· Vapour pressure at 20 °C:	~23 hPa
· Density and/or relative density	
· Density at 20 °C:	1.1-1.2* g/cm <sup>3</sup>
· Relative density	Not determined
· Vapour density	Not applicable.

#### 9.2 Other information

· Appearance:	* The values are for freshly produced material and may change with the time.
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Softening point/range	
· Oxidising properties:	Not applicable
· Evaporation rate	Not applicable

#### Information with regard to physical hazard classes

· Explosives	Void
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· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	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:**  
To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions**  
Violent reactions with strong alkalis and oxidising agents.  
Reacts with light alloys to form hydrogen.  
Corrosive action on metals.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**  
Bases  
Metals
- **10.6 Hazardous decomposition products:**  
In case of fire, the following can be released:  
Hydrogen fluoride  
silicon tetrafluoride  
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**  
Harmful if swallowed or in contact with skin.

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**LD/LC50 values relevant for classification:****64-17-5 ethanol**

Oral	LD50	10,470 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Inhalative	LC50/4 h	>50 mg/l (rat) (OECD 403)

**69011-36-5 Isotridecanol, ethoxylated (≥ 2,5 EO)**

Oral	LD50	>300-2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
	NOAEL	50 mg/kg /2 Jahre (rat) Herz Leber Niere

**• Skin corrosion/irritation**

Harmful by contact with skin  
Causes severe skin burns and eye damage.

**• Serious eye damage/irritation**

Causes serious eye damage.

**• during inhalation:** Irritant effect possible.**• during swallowing:**

harmful

Swallowing will lead to a caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

**• 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** Based on available data, the classification criteria are not met.**• STOT-single exposure** Based on available data, the classification criteria are not met.**• 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.

**• Subacute to chronic toxicity:****• Repeated dose toxicity****64-17-5 ethanol**

Oral	NOAEL	1,760 mg/kg /90D (rat) (OECD 408) Zielorgan: Leber
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**• CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Not applicable**• 11.2 Information on other hazards****• Endocrine disrupting properties**

None of the ingredients is listed.

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### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### **64-17-5 ethanol**

EC 50/48h	>10,000 mg/l (daphnia)
EC 50/72 h	275 mg/l (Freshwater algae) (OECD 201)
EC 50	>100 mg/l /statisch (algae) (OECD 201)
LC 50/48h	8,140 mg/l (fish)

##### **69011-36-5 Isotridecanol, ethoxylated (≥ 2,5 EO)**

NOEC	1.73 mg/l (fish) (QSAR)
	2.5 mg/l /21D (daphnia) (OECD 211)
NOEC	220 mg/kg (invertebrates)
	10 mg/kg (plants) (OECD 208)
EC 50/48h (static)	>1-10 mg/l (daphnia) (OECD 202)
EC 50/72 h (static)	>1 mg/l (algae) (OECD 201)
EC 50	140 mg/l (activated sludge)
LC 50/96 h	>1-10 mg/l (fish) (OECD 203)
EC 10 (static)	>1-10 mg/l /72H (algae) (OECD 201)

· **12.2 Persistence and degradability** No further relevant information available.

· **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

The product does not contain substances with endocrine disrupting properties.

#### · 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.

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

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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

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

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### SECTION 13: Disposal considerations

**13.1 Waste treatment methods****Recommendation**

Disposal must be made according to official regulations.

Must not be disposed with household garbage. Do not allow product to reach sewage system.

**European waste catalogue**

06 01 06\* | other acids

**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**

UN1778

**14.2 UN proper shipping name****ADR**

1778 FLUOROSILICIC ACID solution

**IMDG**

FLUOROSILICIC ACID

**IATA**

FLUOROSILICIC ACID, solution

**14.3 Transport hazard class(es)****ADR, IMDG, IATA****Class**

8 Corrosive substances.

**Label**

8

**14.4 Packing group****ADR, IMDG, IATA**

II

**14.5 Environmental hazards:****Marine pollutant:**

No

**14.6 Special precautions for user**

Warning: Corrosive substances.

**Hazard identification number (Kemler code):** 80**EMS Number:**

F-A,S-B

**Segregation groups**

(SGG1) Acids

**Stowage Category**

A

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· <b>Segregation Code</b>	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable
· <b>Transport/Additional information:</b>	metal corrosive
· <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>	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 1778 FLUOROSILICIC ACID SOLUTION, 8, 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.
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **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.  
H300 Fatal if swallowed.  
H302 Harmful if swallowed.  
H310 Fatal in contact with skin.  
H314 Causes severe skin burns and eye damage.

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H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

· **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

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. 2: Flammable liquids – Category 2

Acute Tox. 2: Acute toxicity – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 1: Acute toxicity – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

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