



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

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

- **1.1 Product identifier**
- **Trade name:** KEIM Lotexan
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Hydrophobing agent/ water repellent
- **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  
 Telford  
 Shropshire  
 TF2 7NA  
 United Kingdom  
 Tel: +44 1952 231250  
 Fax: +44 1952 231251  
 Url: <http://www.keimpaints.co.uk>
- **Further information obtainable from:**  
 David Pratt  
 Telefon: +44 1952 231250  
 E-Mail: [sales@keimpaints.co.uk](mailto:sales@keimpaints.co.uk)
- **1.4 Emergency telephone number:**  
 GBK Gefahrgut Büro GmbH  
 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.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
STOT SE 3	H336	May cause drowsiness or dizziness.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Xn; Harmful  
 R65: Harmful: may cause lung damage if swallowed.  
 N; Dangerous for the environment  
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R10-67: Flammable. Vapours may cause drowsiness and dizziness.
- **Information concerning particular hazards for human and environment:**  
 Has a narcotizing effect.
- **Classification system:**  
 The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

(Contd. on page 2)

GB



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

Trade name: KEIM Lotexan

(Contd. of page 1)

- **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 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
AROMATIC HYDROCARBONS
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.  
H411 Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
P102 Keep out of reach of children.  
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.  
P273 Avoid release to the environment.  
P261 Avoid breathing mist/vapours/spray.  
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P315 Get immediate medical advice/attention.  
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, sand, extinguishing powder.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Information concerning particular hazards for human and environment:**  
Has a narcotizing effect.  
Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)

GB



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

Trade name: KEIM Lotexan

(Contd. of page 2)

· **Dangerous components:**

CAS: 64742-82-1 EC number: 919-446-0 Index number: 650-001-02-5 Reg.nr.: 01-2119458049-33-XXXX	AROMATIC HYDROCARBONS	50-100%
	☒ Xn R65; ☒ N R51/53 R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	
CAS: 34396-03-7 EINECS: 251-995-5	Trimethoxy(2,4,4-trimethylpentyl)silane	≤ 2.5%
	R10 ⚠ Flam. Liq. 3, H226	
CAS: 64742-95-6 EC number: 918-668-5 Reg.nr.: 01-2119455851-35-XXXX	Hydrocarbons, C9, aromatics	< 1%
	☒ Xn R65; ☒ Xi R37; ☒ N R51/53 R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information:**

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

Immediately remove any clothing soiled by the product.

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

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

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**

Headache

Dizziness

Nausea

Coughing

· **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.

· **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:

(Contd. on page 4)



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

**Trade name: KEIM Lotexan**

(Contd. of page 3)

- carbon oxide (CO<sub>x</sub>)
- silicon dioxid (SiO<sub>2</sub>)
- Flammable gases/vapours
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **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 breath 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.
- Do not inhale fumes.
- Avoid contact with skin and eyes.
- Respect the protection rules (see section 7 a. 8).
- Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
- Prevent from spreading (e.g. by damming-in or oil barriers).
- Do not allow product to reach 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:**
- Absorb with non-combustible liquid-binding material (sand, diatomite, vermiculite).
- 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.
- Keep receptacles tightly sealed.
- Keep away from heat and direct sunlight.
- Ensure good ventilation/exhaustion at the workplace.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
- 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.
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

(Contd. on page 5)

GB



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

Trade name: KEIM Lotexan

(Contd. of page 4)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Drip pan to be provided.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from heat and direct sunlight.
- **Storage class:** 3A
- **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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **DNELs**

### 64742-82-1 AROMATIC HYDROCARBONS

Oral	Long-term - systemic effects, consumer	26 mg/kg/day (consumer)
Dermal	Long-term - systemic effects, consumer	26 mg/kg/day (consumer)
	Long-term - systemic effects, worker	44 mg/kg bw/day (worker)
Inhalative	Long-term - systemic effects, consumer	71 mg/m <sup>3</sup> (consumer)
	Long-term - systemic effects, worker	330 mg/m <sup>3</sup> (worker)

### 64742-95-6 Hydrocarbons, C9, aromatics

Oral	Long-term - systemic effects, consumer	11 mg/kg/day (consumer)
Dermal	Long-term - systemic effects, consumer	11 mg/kg/day (consumer)
	Long-term - systemic effects, worker	25 mg/kg bw/day (worker)
Inhalative	Long-term - systemic effects, consumer	32 mg/m <sup>3</sup> (consumer)
	Long-term - systemic effects, worker	150 mg/m <sup>3</sup> (worker)

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

- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from tobacco products.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the eyes and skin.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Short term filter device:  
Filter A/P2

(Contd. on page 6)

GB



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

**Trade name: KEIM Lotexan**

(Contd. of page 5)

- **Protection of hands:**  
Protective gloves  
Only use chemical-protective gloves with CE-labelling of category III.  
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**  
suitable material e.g.:  
Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.4$  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 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:** Tightly sealed goggles
- **Body protection:**  
Solvent resistant protective clothing  
After contact with skin wash thoroughly with water.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Like aromates
· <b>Odour threshold:</b>	Not determined.
- **pH-value at 20 °C:** 7
- **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	> 148 °C
- **Flash point:** 43 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** 200 °C
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

(Contd. on page 7)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

Trade name: KEIM Lotexan

(Contd. of page 6)

<ul style="list-style-type: none"> <li>· <b>Explosion limits:</b></li> <li style="padding-left: 20px;">Lower: 0.6 Vol %</li> <li style="padding-left: 20px;">Upper: 7.0 Vol %</li> <li>· <b>Oxidizing properties</b> Not applicable</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Vapour pressure at 20 °C:</b> 3 hPa</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Density at 20 °C:</b> 0.79* g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not applicable.</li> <li>· <b>Evaporation rate</b> Not applicable.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Solubility in / Miscibility with water:</b> Insoluble.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Partition coefficient (n-octanol/water):</b> Not determined.</li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Viscosity:</b></li> <li style="padding-left: 20px;">Dynamic: Not determined.</li> <li style="padding-left: 20px;">Kinematic: Not determined.</li> <li>· <b>9.2 Other information</b> * The values are for freshly produced material and may change with the time.</li> </ul>	

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases/fumes.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** oxidizing agents
- **10.6 Hazardous decomposition products:**  
In case of fire, the following can be released:  
carbon oxide (CO<sub>x</sub>)  
silicon dioxid (SiO<sub>2</sub>)  
Flammable gases/vapours  
No hazardous decomposition products if stored and handled as prescribed.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

#### 64742-82-1 AROMATIC HYDROCARBONS

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2900 mg/kg (rabbit)

#### 64742-95-6 Hydrocarbons, C<sub>9</sub>, aromatics

Oral	LD50	>2000 mg/kg (rat)
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(Contd. on page 8)

GB



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

<b>Trade name: KEIM Lotexan</b>
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(Contd. of page 7)

Dermal LD50 >2000 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:**  
not primarily irritating on the skin  
Has de-greasing effect on the skin.  
Repeated exposure may cause skin dryness or cracking.
- **on the eye:** In case of longer exposure, slightly irritating effect is possible.
- **during inhalation:**  
Vapours may cause drowsiness and dizziness.  
Irritant effect possible.
- **during swallowing:**  
harmful  
May cause lung damage if swallowed.  
Irritant effect possible
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**  
Experimental analysis are not available.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful

## SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**  
Toxic to aquatic organisms.  
May cause long-term adverse effects in the aquatic environment.

<b>64742-82-1 AROMATIC HYDROCARBONS</b>	
EC 50/48h	10-22 mg/l (daphnia)
<b>64742-95-6 Hydrocarbons, C9, aromatics</b>	
LC 50	1-10 mg/l (algae)
	1-10 mg/l (fish)
	1-10 mg/l (invertebrates)

- **12.2 Persistence and degradability** Easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **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:**  
Avoid transfer into the environment.  
Danger to drinking water if even small quantities leak into the ground.  
At present there are no ecotoxicological assessments.  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

(Contd. on page 9)



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

Trade name: KEIM Lotexan

(Contd. of page 8)

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations



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

- **European waste catalogue**

08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 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. (TURPENTINE SUBSTITUTE, Hydrocarbons, C9, aromatics), ENVIRONMENTALLY HAZARDOUS, special provision 640E
- **IMDG** FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Hydrocarbons, C9, aromatics), MARINE POLLUTANT
- **IATA** FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Hydrocarbons, C9, aromatics)
- **14.3 Transport hazard class(es)**
- **ADR, IMDG**
- 

- **Class** 3 Flammable liquids.

(Contd. on page 10)

GB



## Safety data sheet

according to 1907/2006/EC, Article 31


Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

Trade name: KEIM Lotexan

(Contd. of page 9)

· Label	3
· IATA	
	
· Class	3 Flammable liquids.
· Label	3
· 14.4 Packing group	
· ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: AROMATIC HYDROCARBONS
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	30
· EMS Number:	F-E, S-E
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Transport category	3
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S. (TURPENTINE SUBSTITUTE, Hydrocarbons, C9, aromatics), special provision 640E, ENVIRONMENTALLY HAZARDOUS, 3, III

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### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- Other regulations, limitations and prohibitive regulations
- Please note:
  - TRGS 200 (Germany)
  - TRGS 500 (Germany)
  - TRGS 510 (Germany)
  - TRGS 900 (Germany)
- Product-Code/Giscode: ---

(Contd. on page 11)

GB



## Safety data sheet

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

Printing date 03.07.2014

Version number 10

Revision: 03.07.2014

**Trade name: KEIM Lotexan**

(Contd. of page 10)

· **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.
- H304 May be fatal if swallowed and enters airways.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.
- R10 Flammable.
- R37 Irritating to respiratory system.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** KEIMFARBEN Germany, Product safety department

· **Contact:** Mrs. Popescu

· **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 Harmonized 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)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (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.
- REACH: Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No.1907/2006)

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