



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

Printing date 07.08.2017

Version number 13

Revision: 07.08.2017

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 GB-Telford, Shropshire TF2 7NA
Tel +44 1952 231 250 / Fax +44 1952 231 251
www.keimpaints.co.uk / 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.
STOT SE 3	H336	May cause drowsiness or dizziness.
STOT RE 1	H372	Causes damage to the central nervous system through prolonged or repeated exposure.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2	H411	Toxic to aquatic life with long lasting effects.
- **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:**
Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene)
- **Hazard statements**
H226 Flammable liquid and vapour.

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H336 May cause drowsiness or dizziness.

H372 Causes damage to the central nervous system through prolonged or repeated exposure.

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.

P261 Avoid breathing mist/vapours/spray.

P273 Avoid release to the environment.

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): 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.

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

P405 Store locked up.

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.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64742-82-1 EINECS: 265-185-4 Index number: 649-330-00-2 Reg.nr.: 01-2119458049-33-XXXX	Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene) ⚠ Flam. Liq. 3, H226; ⚠ STOT RE 1, H372; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	50-100%
CAS: 34396-03-7 EINECS: 251-995-5	Trimethoxy(2,4,4-trimethylpentyl)silane ⚠ Flam. Liq. 3, H226	≤2.5%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4 Reg.nr.: 01-2119455851-35-XXXX	Solvent naphtha (petroleum), light arom. (< 0,1% Benzene) ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	<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:**

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.

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

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:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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)

silicon dioxid (SiO₂)

Flammable gases/vapours

Formation of toxic gases is possible during heating or in case of fire.

· 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.

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

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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.

Do not inhale aerosols.

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.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store only in unopened original receptacles.

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

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- Drip pan to be provided.
- Information about storage in one common storage facility:** Store away from oxidising agents.
- Further information about storage conditions:**
 - Keep container tightly sealed.
 - Protect from heat and direct sunlight.
 - Protect from frost.
- 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:**

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 Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene)**

Oral	Long-term - systemic effects, consumer	28 mg/kg/day (consumer)
Dermal	Long-term - systemic effects, worker	47 mg/kg bw/day (worker)
	Long-term - systemic effects, consumer	28 mg/kg/day (consumer)
Inhalative	Long-term - systemic effects, worker	330 mg/m ³ (worker)
	Long-term - systemic effects, consumer	71 mg/m ³ (consumer)

64742-95-6 Solvent naphtha (petroleum), light arom. (< 0,1% Benzene)

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

- 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 aerosols.
 - Wash hands before breaks and at the end of work.
 - Immediately remove all soiled and contaminated clothing
 - Store protective clothing separately.
- 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

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- **Protection of hands:**
Only use chemical-protective gloves with CE-labelling of category III.
After use of gloves apply skin-cleaning agents and skin cosmetics.
Protective gloves
- **Material of gloves**
suitable material e.g.:
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.4 mm
Fluorocarbon rubber (Viton)
Recommended thickness of the material: ≥ 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 ≥ 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.
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:**
Solvent resistant protective clothing
After contact with skin wash thoroughly with water and apply lotion.
- **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:	White
- **Odour:** Aromatic
- **Odour threshold:** Not determined.
- **pH-value:** Not applicable
- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	$>148^{\circ}\text{C}$
- **Flash point:** $\sim 40^{\circ}\text{C}$
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** $>200^{\circ}\text{C}$

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· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	0.6 Vol %
Upper:	7.0 Vol %
· Oxidising properties	Not applicable
· Vapour pressure at 20°C:	~2.3 hPa
· Density at 20°C:	0.8-0.9* g/cm ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not applicable.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
VOC (EC)	93.20 %
· 9.2 Other information	* 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 according to specifications.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases/fumes.
- **10.4 Conditions to avoid**
 - Heat
 - Flame
 - Sparks
- **10.5 Incompatible materials:** oxidizing agents
- **10.6 Hazardous decomposition products:**
In case of fire, the following can be released:
carbon oxide (CO_x)
silicon dioxid (SiO₂)
Flammable gases/vapours

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No hazardous decomposition products if stored and handled as prescribed.

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene)

Oral	LD50	>15,000 mg/kg (rat) (OECD 401)
Dermal	LD50	~3,400 mg/kg (rabbit) (OECD Richtlinie 402)
Inhalative	LC50/4 h	13.1 mg/l (rat) (OECD 403)

64742-95-6 Solvent naphtha (petroleum), light arom. (< 0,1% Benzene)

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
not primarily irritating on the skin
Has de-greasing effect on skin.
Repeated exposure may cause skin dryness or cracking.
- **Serious eye damage/irritation** 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.
- **Respiratory or skin sensitisation** 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.
- **CMR effects (carcinogenity, 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 drowsiness or dizziness.
- **STOT-repeated exposure**
Causes damage to the central nervous system through prolonged or repeated exposure.
- **Aspiration hazard**
May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene)

NOEC	21 mg/l (daphnia)
EC 50/48h	10 mg/l (daphnia) (OECD 202)
EC 50/72 h	4.6 mg/l (algae) (OECD 201)
LC 50/96 h	10 mg/l (fish) (OECD 203)

64742-95-6 Solvent naphtha (petroleum), light arom. (< 0,1% Benzene)

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:

AOX-indication:

According to our standard of knowledge the product does not contain any organic bounded halogen. The product has no influence on the waste water's AOX-value.

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.

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

Also poisonous for fish and plankton in water bodies.

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

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

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Disposal must be made according to official regulations.

· **European waste catalogue**

14 06 03*	other solvents and solvent mixtures
15 02 02*	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances

- **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 · IMDG · IATA	1993 FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene), Solvent naphtha (petroleum), light arom. (< 0,1% Benzene)), MARINE POLLUTANT/ ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene), Solvent naphtha (petroleum), light arom. (< 0,1% Benzene)), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene), Solvent naphtha (petroleum), light arom. (< 0,1% Benzene))
· 14.3 Transport hazard class(es) · ADR, IMDG	
 	
· Class · Label	3 Flammable liquids. 3
· IATA	
	
· Class	3 Flammable liquids.

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· Label	3
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Product contains environmentally hazardous substances: Naphtha (petroleum), hydrodesulfurized heavy (< 0,1% benzene) Yes Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Flammable liquids. 30 F-E, S-E A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L 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. (NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY (< 0,1% BENZENE), SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (< 0,1% BENZENE)), 3, III, MARINE POLLUTANT/ ENVIRONMENTALLY HAZARDOUS

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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**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations:**
- **Waterhazard class:** Water hazard class 2 (Self-assessment): 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
- **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.
H372 Causes damage to the central nervous system through prolonged or repeated exposure.
H411 Toxic 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

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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
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. 3: Flammable liquids – Category 3
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

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