

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

Printing date 06.06.2013

Version number 1

Revision: 06.06.2013

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

· **Product identifier**

- **Trade name:** LTK-008
- **Relevant identified uses of the substance or mixture and uses advised against**
 No further relevant information available.
 - **Application of the substance / the preparation** Disinfectant

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

BioDelta GmbH
 Am Mittelbach 11
 D-32584 Löhne
 Germany
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 info@biodelta.de
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· **Informing department:**

Dr. Franke
 Tel: (+49) 05731-98 16 201

· **Emergency telephone number:**

Tel. Tel: (+49) 05731-98 16 201
 (Office hours 09.00 - 16.00)

2 Hazards identification

· **Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
 Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Void

· **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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- **Label elements**

- **Labelling according to EU guidelines:**

The product does not require labelling according to the dangerous substance directive 67/548/EEC or the dangerous preparations directive 1999/45/EC.

After change of the classification system to the the CLP-regulation 1272/2008 by 1st July 2015 at latest the product will require labelling with the same composition.

- **Safety phrases:**

50 Do not mix with acids.

- **Special labelling of certain preparations:**

Warning! Do not use together with other products. May release dangerous gases (chlorine).

Safety data sheet available for professional user on request.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.





- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Aqueous solution consisting of the following components.

- **Dangerous components:**

CAS: 7681-52-9	sodium hypochlorite, solution	3-<5%
EINECS: 231-668-3	 C R34;  N R50	
Reg.nr.: 01-2119488154-34-X	R31	
	 Skin Corr. 1B, H314;  Aquatic Acute 1, H400	

- **Components according to regulation EC 648/2004 on detergents**

chlorine-based bleaching agents	< 5%
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- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **Description of first aid measures**

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- **After skin contact**

Wash with water and soap.

In case of skin irritations or sensitizing effects, consult doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. Then consult doctor.

- **After swallowing**

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

- **Information for doctor**

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Danger** Danger of pulmonary oedema.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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5 Firefighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents**
The product itself does not burn.
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
Formation of poisonous gases during heating or in fires.
Chlorine
Chloroxides
Inhalation of combustion gases may cause serious health hazards.
- **Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.
 - **Additional information** Provide for sufficient reservoirs for water for fire fighting.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Keep people at a distance and stay on the windward side.
Avoid contact with the product.
Ensure adequate ventilation
- **Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
- **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 information on disposal.

7 Handling and storage

- **Handling**
 - **Precautions for safe handling**
Ensure sufficient ventilation.
Avoid contact with eyes and skin.
Do not inhale gases/vapours/aerosols.
 - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:**
Store container tightly sealed at a cool place.
 - **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidizing agents.
Do not store together with acids.
 - **Further information about storage conditions:** Protect from heat and direct sunlight.
 - **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
OEL: occupational exposure limit
WEL: workplace exposure limit

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7782-50-5 chlorine

WEL (Great Britain)	Short-term value: 1.5 mg/m ³ , 0.5 ppm
IOELV (European Union)	Short-term value: 1.5 mg/m ³ , 0.5 ppm

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

· **Breathing equipment:** Not required.

· **Protection of hands:**

In case of longer or repeated contact with the skin: use protective cream for the skin surfaces coming into contact with the product.

Protective gloves are only required in case of intense and/or prolonged skin contact with the product.

· **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.11 mm

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses recommended during refilling.

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Fluid
· Colour:	Colourless
· Odour:	Chlorine-like
· Odour threshold:	Not determined.

· **pH-value at 20 °C:** 11.4

· **Change in condition**

· Melting point/Melting range:	~ 0 °C
· Boiling point/Boiling range:	~ 100 °C

· **Flash point:** Not applicable

· **Inflammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

· **Decomposition temperature:** Not determined.

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Vapour pressure at 20 °C:** 23 hPa

· Density at 20 °C	~ 1 g/cm ³
· Relative density	Not determined.

· **Solubility in / Miscibility with**

· **Water:** Fully miscible

· **Partition coefficient (n-octanol/water):** Not determined.

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- | | |
|---|--|
| <ul style="list-style-type: none"> · Viscosity: · dynamic: | Not determined. |
| <ul style="list-style-type: none"> · Solvent content: · Organic solvents: | 0.0 % |
| <ul style="list-style-type: none"> · Other information | No further relevant information available. |

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with acids releasing chlorine
- **Conditions to avoid** Heat.
- **Incompatible materials:**
Strong UV-radiation.
Acid
Strong oxidizing agents
- **Hazardous decomposition products:**
Chlorine
chlorine oxides

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
 - **Primary irritant effect:**
 - **on the skin:** Slightly irritant
 - **on the eye:** Splashes can cause temporary eye irritation.
 - **Sensitization:** No sensitizing effect known.

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
 - **Other information:** There are no data available about the preparation.
- **Behaviour in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
 - **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

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

The waste code numbers mentioned are recommendations based on the probable use of the product.

- **European waste catalogue**

06 00 00	WASTES FROM INORGANIC CHEMICAL PROCESSES
06 02 00	wastes from the MFSU of bases
06 02 04*	sodium and potassium hydroxide

- **Uncleaned packagings:**

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

14 Transport information

- **UN-Number**

- **ADR, ADN, IMDG, IATA** Void

- **UN proper shipping name**

- **ADR, ADN, IMDG, IATA** Void

- **Transport hazard class(es)**

- **ADR, ADN, IMDG**

- **Class** Void

- **IATA**

- **Class** Void
Not Restricted.

- **Packing group**

- **ADR, IMDG, IATA** Void

- **Environmental hazards:**

- **Marine pollutant:** No

- **Special precautions for user**

Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **Transport/Additional information:**

- **ADR**

- **Remarks:** No test for metal corrosivity was performed. A final assessment of class 8 is not possible.

- **UN "Model Regulation":**

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15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Designation according to EC guidelines:**
The product does not require labelling according to the dangerous substance directive 67/548/EEC or the dangerous preparations directive 1999/45/EC.
After change of the classification system to the the CLP-regulation 1272/2008 by 1st July 2015 at latest the product will require labelling with the same composition.
- **Safety phrases:**
50 Do not mix with acids.
- **Special designation of certain preparations:**
Warning! Do not use together with other products. May release dangerous gases (chlorine).
Safety data sheet available for professional user on request.
- **National regulations**
 - **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
- R31 Contact with acids liberates toxic gas.
- R34 Causes burns.
- R50 Very toxic to aquatic organisms.
- **Department issuing data specification sheet:**
This Material Safety Data Sheet has been drawn up in cooperation with:
DEKRA Consulting GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
tel.: (+49) 511 42079 311, reach@dekra.com.
- **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

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