

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

Printing date 01.07.2011

Revision: 21.07.2009

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

- **Product identifier**
- **Trade name : Kalk- und Betonlöser**
- **Article number: LOS9700**
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Cleaning agent/ Cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
EURO-LOCK Vertriebs-GmbH  
Nordweststr. 3  
D - 59387 Ascheberg
- **Informing department:**  
+49 (0) 2593 95887-0  
E-mail: info@euro-lock.de
- **Emergency telephone number:**  
+49 (0) 2593 95887-0  
Monday - Thursday 8:00 - 17:00 CET, Friday 8:00 - 13:00 CET

Tel.: +49 (0) 2593 95887-0

**2 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
C; Corrosive  
R34: Causes burns.
- **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.
- **Label elements**
- **Labelling according to EU guidelines:**  
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Code letter and hazard designation of product:**  
 C Corrosive
- **Hazard-determining components of labelling:**  
phosphoric acid
- **Risk phrases:**  
34 Causes burns.
- **Safety phrases:**  
20 When using do not eat or drink.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
35 This material and its container must be disposed of in a safe way.  
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### \* 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions (aqueous solution).

- <b>Dangerous components:</b>		
CAS: 7664-38-2 EINECS: 231-633-2 Reg.nr.: 01-2119485924-24	phosphoric acid C R34 Skin Corr. 1B, H314	50-100%
CAS: 6419-19-8 EINECS: 229-146-5	nitilotrimethylenetris(phosphonic acid) Xi R36/38 Skin Irrit. 2, H315; Eye Irrit. 2, H319	1-5%

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

- **Composition/Ingredients**  
Constituents according to EC-Regulation 648/2004:
- > 30 % phosphates
- < 5 % non-ionic surfactants,
- < 5 % phosphonates,

### 4 First aid measures

- **Description of first aid measures**
- **General advice:**  
Instantly remove any clothing soiled by the product.  
In case of unconsciousness bring patient into stable side position for transport.
- **After inhalation**  
Provide fresh-air circulation. If symptoms continue, consult a doctor. In case of respiratory failure or breathing irregularities, commence resuscitation or oxygen inhalation and immediately consult a doctor. In case of unconsciousness, place und transport the patient in a recovery position.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.
- **After eye contact** Rinse immediately opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; instantly call for medical help.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed**  
Burning effect and pain to eyes, skin and mucous membranes. After swallowing serious irritation to oral cavity and throat as well as danger of perforation of the gullet.

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**5 Firefighting measures**

- **Extinguishing media**
  - **Suitable extinguishing agents**  
Use fire fighting measures that suit the environment.  
Carbon dioxide, extinguishing powder, water jet or alcohol-resistant foam.
  - **Special hazards arising from the substance or mixture**  
Reacts with base metals forming readily flammable hydrogen.
  - **Advice for firefighters**
  - **Protective equipment:**  
See section 8.  
Wear full protective suit with self-contained breathing apparatus.
  - **Additional information**  
Endangered containers in the surrounding area should be cooled with a water-hose.  
Collect contaminated fire fighting water separately. It must not enter drains.
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**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep off unprotected persons
  - **Environmental precautions:**  
Do not allow to enter drainage system, surface or ground water.  
Dilute with much water.  
If large amounts are released, the authorities must be informed.
  - **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.
  - **Reference to other sections**  
See Section 8 for information on personal protection equipment.
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**7 Handling and storage**

- **Handling**
  - **Precautions for safe handling**  
Avoid contact with eyes and skin.  
Keep containers tightly sealed.
  - **Information about protection against explosions and fires:** No special measures required.
  - **Conditions for safe storage, including any incompatibilities**
  - **Storage** Keep containers tightly closed. Store in cool, dry conditions.
  - **Requirements to be met by storerooms and containers:**  
Do not store together with strong alkali. Unsuitable materials: many metallics and metallic alloys  
Observe official regulations on storage and handling of water hazardous substances
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from frost.
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- Storage class 8 B L (VCI - Konzept, 2007)

### \* 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

- Control parameters

- Components with critical values that require monitoring at the workplace:

7664-38-2 phosphoric acid (50-100%)

WEL ()	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
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- Additional information: The lists that were valid during the compilation were used as basis.

- Exposure controls

- Personal protective equipment

- General protective and hygienic measures

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

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

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

- Breathing equipment: Use breathing protection only when aerosol or mist is formed.

- Recommended filter device for short term use: Combination filter A-P2

- Protection of hands: Protective gloves.

- Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

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.

- Penetration time of glove material

Material of gloves is recommended for a short-term single use to protect from splashes. For permanent usage contact manufacturer of gloves.

- Eye protection: Tightly sealed safety glasses.

- Body protection:

Standard protective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear impenetrable protective clothing against this solvent.

Acid resistant protective clothing

### 9 Physical and chemical properties

- Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Fluid

Colour: Colourless

- Smell: Mild

- pH-value (10 g/l) at 20°C: ca. 1.9

- Change in condition

Melting point/Melting range: Not determined

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<b>Boiling point/Boiling range:</b>	> 100°C
<b>- Flash point:</b>	Product is non-flammable nor potentially explosive
<b>- Self-inflammability:</b>	Product is not selfigniting.
<b>- Danger of explosion:</b>	Product is not approx. potentially explosive.
<b>- Density at 20°C</b>	ca. 1.42 g/cm <sup>3</sup>
<b>- Solubility in / Miscibility with Water:</b>	Fully miscible
<b>- Solvent content: Organic solvents:</b>	0.0 %

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**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 metals forming hydrogen
    - Exothermic reaction with strong alkalies
  - **Incompatible materials:** Bases, base metal
  - **Hazardous decomposition products:** Reaction in contact with metal forming hydrogen.
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**11 Toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** Corrosive effect on skin and mucous membranes.
    - **on the eye:** Strong caustic effect.
  - **Sensitization:** No sensitizing effect known.
  - **Additional toxicological information:**
    - The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
      - corrosive
      - Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
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**\*12 Ecological information**

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability**
    - The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
  - **Ecotoxicological effects:** fish, plancton and waterorganism could be damaged by pH - shift
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- **Additional ecological information:**
- **General notes:**  
Do not allow to enter drainage system, surface or ground water.  
Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**\*13 Disposal considerations**

- **Waste treatment methods**  
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
A used product should be recycled or used in other contexts, otherwise be handed over to an appropriate disposal, e.g. neutralisation.
- **Waste disposal key number:**  
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.
- **Uncleaned packagings:** Disposal must be made according to official regulations.
  
- **Recommendation:**  
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**\*14 Transport information**

- |   |   |
|---|---|
| <b>- Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)</b> |   |
| - <b>ADR/RID-GGVS/E Class:</b>  | 8 (C1) Corrosive substances.  |
| - <b>Kemler Number:</b>   | 80  |
| - <b>UN-Number:</b>   | 3264  |
| - <b>Packaging group:</b>   | III   |
| - <b>Label</b>  | 8   |
| - <b>UN proper shipping name:</b>                                     | 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID SOLUTION) |
| <b>- Maritime transport IMDG/GGVSea:</b>                              |   |
| - <b>IMDG/GGVSea Class:</b>   | 8   |
| - <b>UN Number:</b>   | 3264  |
| - <b>Label</b>  | 8   |
| - <b>Packaging group:</b>   | III   |
| - <b>EMS Number:</b>  | F-A,S-B   |
| - <b>Marine pollutant:</b>  | No  |
| - <b>Segregation groups</b>   | Acids   |
| - <b>Correct technical name:</b>                                      | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION)     |

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<b>- Air transport ICAO-TI and IATA-DGR:</b>	
<b>- ICAO/IATA Class:</b>	8
<b>- UN/ID Number:</b>	3264
<b>- Label</b>	8
<b>- Packaging group:</b>	III
<b>- Correct technical name:</b>	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SOLUTION)

**- UN "Model Regulation":** UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III  
**- Special precautions for user** Warning: Corrosive substances.

**\*15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Information about limitation of use:** Employment restrictions concerning young persons must be observed.
- **Technical instructions (air):**
- **VOC** None.
- **Water hazard class:**  
Water hazard class 1 (self assessment according to German VwVwS (Regulations for water-hazardous substances): 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**  
Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
R34 Causes burns.  
R36/38 Irritating to eyes and skin.
- **Department issuing data specification sheet:** see item 1: Informing departement
- **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)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
ICAO: International Civil Aviation Organization  
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
- **\* Data compared to the previous version altered.**