

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

Printing date 04.03.2021

Version number 3

Revision: 04.03.2021

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

#### 1.1 Product identifier

Trade name: **Sorbalit® 3 % AK, Sorbalit® 4 % AK, Sorbalit® 5 % AK, Sorbalit® 10 % AK, Sorbalit® 20 % AK, Sorbalit® 25 % AK, Sorbalit® 30 % AK, Sorbalit® 35 % AK, Sorbalit® 5% AK PHC 1100**

#### UFI:

Sorbalit® 3% AK: YM30-E0RQ-S003-MDEG  
Sorbalit® 4% AK: CQ30-X0F4-200K-8R0J  
Sorbalit® 5% AK: NS30-F04H-D003-X2KM  
Sorbalit® 10% AK: PV30-X0TW-P00K-KE5P  
Sorbalit® 20% AK: TY30-F0HA-0002-8RRR  
Sorbalit® 25% AK: T440-F0W3-M002-KEWV  
Sorbalit® 30% AK: P740-Y0KG-W00J-7SGX  
Sorbalit® 35% AK: S940-G08W-7002-W430  
Sorbalit® 5% AK PHC 1100: 0E50-2082-600G-HJNU

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

#### Application of the substance / the mixture

Absorbent  
Adsorbent

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer/Supplier:

Märker Kalk GmbH  
Werk Harburg  
Oskar-Märker-Str. 24  
86655 Harburg  
Tel: +49 (0)9080-8-0  
Fax: +49 (0) 9080-8-653  
www.maerker-gruppe.de

##### Informing department:

reach@maerker-gruppe.de  
Tel. +49 (0) 9080-8-0

#### 1.4 Emergency telephone number:

Giftinformationszentrum / Poison Information Center Mainz:  
Tel. +49 (0) 6131 / 19240  
mail@giftinfo.uni-mainz.de

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

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GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

### 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



GHS05 GHS07

#### Signal word Danger

#### Hazard-determining components of labelling:

calcium dihydroxide

#### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

#### Precautionary statements

P102 Keep out of reach of children.

P261 Avoid breathing dust.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

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

P310 Immediately call a POISON CENTER/doctor.

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

### 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 the substances listed below including additives not requiring identification.

#### Dangerous components:

CAS: 1305-62-0	calcium dihydroxide	50 - 100%
EINECS: 215-137-3	☠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335	
Reg.nr.: 01-2119475151-45-X		

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

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### **SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
  - **General information** Instantly remove any clothing contaminated by the product.
  - **After inhalation**  
Supply fresh air and call for doctor for safety reasons.  
In case of unconsciousness bring patient into stable side position for transport.
  - **After skin contact**  
Instantly 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 doctor.
  - **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; instantly call for medical help.
- **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**  
The product itself does not burn.  
Use fire fighting measures that suit the environment.
  - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire:  
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
  - **Protective equipment:**  
In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.
  - **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains. Provide sufficient fire fighting water retention.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid causing dust.  
Ensure adequate ventilation  
Product forms slippery surface when combined with water.  
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **6.2 Environmental precautions:**  
Damaged containers immediately isolate and seal.  
Gather mechanically and reuse, if possible.  
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Collect mechanically and disposal in suitable containers.  
Keep away from water.

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Ensure adequate ventilation.

· **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 information on disposal.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Prevent formation of dust.

Provide suction extractors if dust is formed.

Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.

Avoid contact with eyes and skin.

Don't eat, drink or smoke while working.

· **Information about protection against explosions and fires:** The product is not flammable

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

· **Storage**

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

Store in cool location.

Store only in the original container.

Unsuitable material for container: aluminium.

· **Information about storage in one common storage facility:** Do not store together with acids.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store under dry conditions.

Protect from humidity and keep away from water.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

#### 1305-62-0 calcium dihydroxide

IOELV (European Union)	Short-term value: 4 mg/m <sup>3</sup>
	Long-term value: 1 mg/m <sup>3</sup> Respirable fraction
WEL (Great Britain)	Short-term value: 4* mg/m <sup>3</sup>
	Long-term value: 5 1* mg/m <sup>3</sup> *resprable fraction

· **DNELs**

#### 1305-62-0 calcium dihydroxide

Inhalative	DNEL (worker, short-term, local)	4 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	1 mg/m <sup>3</sup> (human)
	DNEL (consumer, short-term, local)	4 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, local)	1 mg/m <sup>3</sup> (human)

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· **PNECs**

**1305-62-0 calcium dihydroxide**

PNEC aqua (freshwater)	0.49 mg/L (.)
PNEC aqua (marine water)	0.32 mg/L (.)
PNEC STP	3 mg/L (.)
PNEC soil	1,080 mg/kg soil dw (.)
PNEC aqua (intermittent releases)	0.49 mg/L (.)

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

· **8.2 Exposure controls**

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off all contaminated clothing immediately.

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

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

Approved dust respirators must be used for dusty conditions or if dust levels exceed established standards.

Fine-dust mask, filter P1

· **Hand protection**

Use gloves of stable material (i.e. nitril rubber).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

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**

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

With solid dry substances permeation is not to be expected. Therefore the breakthrough-time for this protective glove has not been measured.

· **Eye/face protection**



Tightly sealed safety glasses.

· **Body protection:** Alkaline resistant protective clothing

**SECTION 9: Physical and chemical properties**

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

· **General Information**

· **Colour:**

Grey

· **Odour:**

odourless

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· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	Not determined
· <b>Flammability</b>	selfigniting according to VDI 2263 > 300 °C
· <b>Flash point:</b>	Not applicable
· <b>Self-inflammability:</b>	not selfigniting according to ADR
· <b>Decomposition temperature:</b>	> 580 °C
· <b>SADT</b>	
· <b>pH at 20 °C</b>	ca. 12
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not applicable.
· <b>dynamic:</b>	Not applicable.
· <b>Solubility</b>	
· <b>Water:</b>	Partly soluble
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	> 2 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not applicable.
· <b>Particle characteristics</b>	See item 3.

· **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Powder
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.0 %
· <b>VOC EU</b>	
· <b>Water:</b>	0.0 %
· <b>Solids content:</b>	100.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.

· **Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <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

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- |                                  |      |
|----------------------------------|------|
| · <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**
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with light alloys in the presence of moisture to form hydrogen
- **10.4 Conditions to avoid** Protect from moisture.
- **10.5 Incompatible materials:** acid
- **10.6 Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

#### 1305-62-0 calcium dihydroxide

Oral	LD50	> 2,000 mg/kg (rat) (OECD 425)
Dermal	LD50	> 2,500 mg/kg (rabbit) (OECD 402)

- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **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**  
May cause respiratory irritation.
- **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.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

#### 1305-62-0 calcium dihydroxide

EC50 (static)	49.1 mg/l/48h (Daphnia magna) (OECD 202)
LC50 (static)	50.6 mg/l/96h (Oncorhynchus mykiss) (OECD 203)

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EC50 (static)	184.6 mg/l/72h (Pseudokirchneriella subcapitata) (OECD 201)
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· **Terrestrial toxicity:**

**1305-62-0 calcium dihydroxide**

NOEC (28 d)	2,000 mg/kg soil dw (Eisenia fetida) (OECD 222)
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NOEC (21 d)	47,600 mg/kg soil dw (Beta vulgaris) (OECD 208)
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- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.
- **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**  
For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**

· **Behaviour in sewage processing plants:**

**1305-62-0 calcium dihydroxide**

EC50 (static)	300.4 mg/l/3h (activated sludge) (OECD 209)
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· **Additional ecological information:**

· **General notes:**

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.

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.

## SECTION 13: Disposal considerations

· **13.1 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**

19 00 00	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
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19 01 00	wastes from incineration or pyrolysis of waste
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19 01 07*	solid wastes from gas treatment
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HP4	Irritant - skin irritation and eye damage
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HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
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· **Uncleaned packagings:**

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

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

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### SECTION 14: Transport information

· 14.1 UN number or ID number · ADR/ADN, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/ADN, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR/ADN, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR/ADN, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

### SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
    - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
    - None of the ingredients is listed.
  - REGULATION (EU) 2019/1148
    - Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
      - None of the ingredients is listed.
    - Annex II - REPORTABLE EXPLOSIVES PRECURSORS
      - None of the ingredients is listed.
  - National regulations
    - Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
    - Substances of very high concern (SVHC) according to REACH, Article 57
      - None of the ingredients is contained.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### SECTION 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**

- H315 Causes skin irritation.

- H318 Causes serious eye damage.

- H335 May cause respiratory irritation.

- **Department issuing data specification sheet:**

▶ **DEKRA** This Material Safety Data Sheet has been drawn up in cooperation with:  
DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
phone: (+49) 511 42079 - 0, reach@dekra.com.

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- **Version number of previous version: 2**

- **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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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