



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

Printing date 05.11.2020

Version number 13.0

Revision: 05.11.2020

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

- **1.1 Product identifier**
- **Trade name:** **KEIM ATHENIT-LISCIO**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Lime Filler
- **Uses advised against** All other uses are not recommended.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
KEIMFARBEN GMBH
Keimstraße 16 / 86420 Diedorf
Tel. +49 (0)821 4802-0
Fax +49 (0)821 4802-210
www.keim.com / info@keimfarben.de
- **Further information obtainable from:**
Product safety department
Telefon: 49(0)821/4802-138
E-Mail: sdb.info@keimfarben.de
- **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**
Eye Dam. 1 H318 Causes serious eye damage.
- **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

- **Signal word** Danger
- **Hazard-determining components of labelling:**
calcium dihydroxide
- **Hazard statements**
H318 Causes serious eye damage.
- **Precautionary statements**
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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- P315 Get immediate medical advice/attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

Additional information:

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

- **2.3 Other hazards** Alkaline product. Avoid contact with skin and eyes.

Results of PBT and vPvB assessment

- **PBT:** Not applicable
- **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:**

Aqueous compound of calcium dihydroxide, calcium carbonate, titanium dioxide, natural carbohydrate and cellulose

Dangerous components:

| | | |
|--|--|---------|
| CAS: 1305-62-0 EINECS: 215-137-3 Reg.nr.: 01-2119475151-45-XXXX | calcium dihydroxide ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; STOT SE 3, H335 | ≥3-<10% |
| CAS: 13463-67-7 EINECS: 236-675-5 Index number: 022-006-00-2 Reg.nr.: 01-2119486799-10-XXXX | titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] ☠ Carc. 2, H351 | 2.5-10% |

- **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.

- **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.

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- Do not induce vomiting; call for medical help immediately.
- **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:**
Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
- **5.3 Advice for firefighters**
- **Specila protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
In case of fire do not breathe smoke, fumes and vapours.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Respect the protection rules (see section 7 a. 8).
Avoid contact with skin and eyes.
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Follow local governmental rules and regulations.
- **6.3 Methods and material for containment and cleaning up:**
Pick up mechanically.
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
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**
Keep receptacles tightly sealed.
Avoid contact with skin and eyes.
Ensure good ventilation/exhaustion at the workplace.

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See item 8 (8.2) for information about suitable protective equipment and technical precautions.
Respect the protection rules.

· **Information about fire - and explosion protection:**

The product is not flammable.
No special measures required.

· **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.
Unsuitable material for receptacle: aluminium.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.
Store in a cool place.
Protect from frost.
Protect from heat and direct sunlight.

· **Storage class:** 12

· **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:**

1305-62-0 calcium dihydroxide

| | |
|---------------|--|
| AGW (Germany) | Long-term value: 1E mg/m ³ 2(I);Y, EU, DFG |
|---------------|--|

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]

| | |
|---------------|--|
| AGW (Germany) | Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolengängig**einatembar; AGS, DFG |
|---------------|--|

· **DNELs**

1305-62-0 calcium dihydroxide

| | | |
|------------|---------------------------|--------------------------------|
| Inhalative | Acute - local effects | 4 mg/m ³ (consumer) |
| | Long-term - local effects | 1 mg/m ³ (consumer) |

· **PNECs**

1305-62-0 calcium dihydroxide

| | |
|--|---------------------------------|
| Aquatic compartment - freshwater | 0.49 mg/l (freshwater) |
| Aquatic compartment - marine water | 0.32 mg/l (marine water) |
| Aquatic compartment - water, intermittent releases | 0.49 mg/l (not specified) |
| Terrestrial compartment - soil | 1,080 mg/kg dw (soil) |
| Sewage treatment plant | 3 mg/l (sewage treatment plant) |

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- **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.
Wash hands before breaks and at the end of work.
Immediately remove all soiled and contaminated clothing.
- **Respiratory protection:**
In a dusty environment wear suitable facemask.
Filter: FFP2
- **Protection of hands:**
Protective gloves
Alkaline resistant gloves
- **Material of gloves**
Nitrile impregnated cotton-gloves
Butyl rubber, BR
Recommended thickness of the material: ≥ 0.5 mm
PVC or PE gloves
Recommended thickness of the material: ≥ 0.5 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 16523-1:2015 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:**
Protective work 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
No further relevant information available.

SECTION 9: Physical and chemical properties

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

| | |
|------------------|-----------|
| · Form: | Pasty |
| · Colour: | White |
| · Odour: | Odourless |

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| | |
|--|--|
| · Odour threshold: | Not determined |
| · pH-value: | Alkaline |
| · Change in condition Melting point/freezing point: | Not determined |
| Initial boiling point and boiling range: | Not determined |
| · Flash point: | Not applicable |
| · Flammability (solid, gas): | Not applicable |
| · Ignition temperature: | Not determined |
| · Decomposition temperature: | Not determined |
| · Auto-ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Product does not present an explosion hazard. |
| · Explosion limits: Lower: | Not applicable |
| Upper: | Not applicable |
| · Oxidising properties: | Not applicable |
| · Vapour pressure at 20 °C: | ~23 hPa |
| · Density at 20 °C: | 1.7-1.8* g/cm ³ |
| · Relative density | Not determined |
| · Vapour density | Not applicable. |
| · Evaporation rate | Not applicable. |
| · Solubility in / Miscibility with water at 20 °C: | < 2 g/l (Ca(OH) ₂) Miscible |
| · Partition coefficient: n-octanol/water: | Not applicable |
| · Viscosity: Dynamic: | Not determined. |
| Kinematic: | Not determined |
| · 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

Reacts in the setting phase with carbon dioxide (CO₂) from the air:
 $\text{Ca(OH)}_2 + \text{CO}_2 \rightarrow \text{CaCO}_3 + \text{H}_2\text{O}$.

· 10.2 Chemical stability

Stable under normal conditions of storage and use.

· Thermal decomposition / conditions to be avoided:

Stable at environment temperature.

No decomposition if used and stored according to specifications.

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- **10.3 Possibility of hazardous reactions**
Reacts with strong acids and oxidising agents.
Reacts with light alloys in the presence of moisture to form hydrogen.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Acids
Aluminium
- **10.6 Hazardous decomposition products:**
No hazardous decomposition products if stored and handled as prescribed.

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:**

1305-62-0 calcium dihydroxide

| | | |
|------|------|-------------------|
| Oral | LD50 | 7,340 mg/kg (rat) |
|------|------|-------------------|

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

| | | |
|------------|--------------|-------------------------------|
| Inhalative | ATE mix (4h) | >5 mg/l (inhalation) |
| | ATE mix | >2,000 mg/kg (dermal) |
| | | >2,000 mg/kg (orally) |
| | NOAEL | 3,500 mg/kg /Oral (rat) (90d) |

- **Primary irritant effect:**
- **Skin corrosion/irritation** Frequent persistent contact with the skin may cause skin irritation.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **during inhalation:** Irritant effect possible.
- **during swallowing:** Irritant effect possible
- **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.

- **Repeated dose toxicity**

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

| | | |
|------------|-------|----------------------------------|
| Inhalative | NOAEC | 10 mg/m ³ (rat) (90d) |
|------------|-------|----------------------------------|

- **CMR effects (carcinogenicity, 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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:**

1305-62-0 calcium dihydroxide

CL 50/96h 160 mg/l (fish)

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$]

NOEC $\geq 100,000$ mg/kg (sediment fresh water)EC50 > 100 mg/kg (freshwater alga) (OECD 201)EC 50 $> 10,000$ mg/l (algae) (ISO 10253)LC 50 $> 10,000$ mg/l (marine fish) (OECD 203) $> 1,000$ mg/l (freshwater fish) (EPA-540/9-85-006) $> 1,000$ mg/l (daphnia) (OECD 202)

- **12.2 Persistence and degradability** No further relevant information available.

- **12.3 Bioaccumulative potential** Does not accumulate in organisms

- **12.4 Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **AOX-indication:**

Due to the substance of content which do not include organic jointed halogens, the product can not take influence on the AOX-load of the waste water.

- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**

The product contains TiO₂.

· **General notes:**

At present there are no ecotoxicological assessments.

The statements on ecotoxicology have been derived from the properties of the individual components.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

- **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**

Disposal must be made according to official regulations.

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

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· European waste catalogue

| | |
|-----------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other hazardous substances |
|-----------|--|

· Uncleaned packaging:**· Recommendation:**

Disposal must be made according to official regulations.
Only empty containers may be recycled.

· Recommended cleansing agents: Water, if necessary with cleansing agents.**SECTION 14: Transport information****· 14.1 UN-Number****· ADR, IMDG**

Void

· IATA

UN3266

· 14.2 UN proper shipping name**· ADR, IMDG**

Void

· IATACORROSIVE LIQUID, BASIC, INORGANIC,
N.O.S. (CALCIUM DIHYDROXIDE)**· 14.3 Transport hazard class(es)****· ADR, IMDG****· Class**

Void

· IATA**· Class**

8 Corrosive substances.

· Label

8

· 14.4 Packing group**· ADR, IMDG**

Void

· IATA

III

· 14.5 Environmental hazards:**· Marine pollutant:**

No

· 14.6 Special precautions for user

Not applicable

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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· Transport/Additional information:**· ADR****· Remarks:** Not classified as dangerous good according to ADR/RID-GGVS/E.**· IMDG****· Remarks:** Not classified as dangerous good according to IMDG/GGVSee.**· UN "Model Regulation":** Void

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.

· 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.

· National regulations:

- **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations**
- **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
- **Product-Code/Giscode:** BSW60
- **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

- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.

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H351 Suspected of causing cancer.

· **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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

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

AGW: Arbeitsplatzgrenzwert (Germany)

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)

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

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

Carc. 2: Carcinogenicity – Category 2

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

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

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