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

Printing date 07.07.2023

Version number 14.1 (replaces version 14.0)

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

- · 1.1 Product identifier
- Trade name: KEIM ATHENIT-FORTE
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Lime colour coat
- · 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

Skin Irrit. 2 H315 Causes skin irritation.

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

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

P102 Keep out of reach of children.

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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.

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.
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 applicablevPvB: 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 September 1, H318; September 2, H315; STOT SE 3, H335	10-<20%
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	≥3-<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.

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· 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

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
- · Special 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 and 8).

Ensure adequate ventilation

Avoid contact with skin and eyes.

Particular danger of slipping on leaked/spilled product.

· 6.2 Environmental precautions:

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

Follow local governmental rules and regulations.

Dilute with plenty of water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Danger of slipping!

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.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

Do not inhale aerosols.

Ensure good ventilation/exhaustion at the workplace.

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 receptacles and pipes:

Aluminium

Zinc

- Information about storage in one common storage facility: Do not store together with acids.
- 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
- · GISCode BSW60 Beschichtungsstoffe, wasserbasiert, alkalisch, ätzend
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

2(I);Y, EU, DFG

· 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
1305-62-0 calcium dihydroxide
AGW (Germany) Long-term value: 1F mg/m³

13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with

aerodynamic diameter ≤ 10 µmj	
AGW (Germany) Long-term value: 1.25* 10** mg/m³	
2(II);*alveolengängig**einatembar; AGS, DFG, Y	

· DNELs	
1305-62-0 calcium dihydroxide	
Inhalative Acute - local effects	4 mg/m³ (consumer)

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		4 mg/m³ (work	er)	
	Long-term - local effects	1 mg/m³ (cons	umer)	
		1 mg/m³ (work	er)	
·PNECs	·			
1305-62-0	1305-62-0 calcium dihydroxide			
Aquatic co	Aquatic compartment - freshwater		0.49 mg/l (Freshwater)	
Aquatic co	Aquatic compartment - marine water		0.32 mg/l (Seawater)	
Aquatic co	Aquatic compartment - water, intermittent releases		0.49 mg/l (not specified)	
Terrestria	Terrestrial compartment - soil		1,080 mg/kg dw (soil)	
Sewage to	Sewage treatment plant		3 mg/l (Sewage treatment plant)	

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Individual protection measures, such as 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.

Ensure that washing facilities are available at the work place.

Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.

Filter: FFP2
Hand protection

Protective gloves Alkaline resistant gloves

Alkaline resistant gloves

· Material of gloves

suitable material e.g.:

Nitrile impregnated cotton-gloves

Butyl rubber, BR

Recommended thickness of the material: $\geq 0.5 \ mm$

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/face protection Tightly sealed goggles

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· Body protection:

· Appearance: · Form:

Protective work clothing

After contact with skin wash thoroughly with water and apply lotion.

· Environmental exposure controls

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 · Physical state Fluid · Colour: Different, according to colouring. · Odour: Odourless · Odour threshold: Not determined · Melting point/freezing point: Not determined Boiling point or initial boiling point and boiling range Not determined · Flammability Not applicable · Lower and upper explosion limit · Lower: Not applicable · Upper: Not applicable · Flash point: Not applicable **Auto-ignition temperature:** Not determined · Decomposition temperature: 1305-62-0 calcium dihydroxide >580 °C pH at 20 °C ~11* · Viscosity: Kinematic viscosity Not determined · Dynamic at 20 °C: 1.200-1.900* mPas · Solubility · water at 20 °C: < 2 g/l (Ca(OH)2) Miscible · Partition coefficient n-octanol/water (log value) Not applicable · Vapour pressure: Not determined. · Density and/or relative density Density at 20 °C: 1.5-1.6* g/cm³ Relative density Not determined Not applicable. · Vapour density · 9.2 Other information * The values are for freshly produced material

and may change with the time.

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Important information on protection of hea and environment, and on safety.	alth
· Ignition temperature:	Product is not selfigniting.
1305-62-0 calcium dihydroxide >400 °C	<u> </u>
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Softening point/range	
· Oxidising properties:	Not applicable
· Evaporation rate	Not applicable
· Information with regard to physical haz	ard
classes	
· Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity

Reacts in the setting phase with carbon dioxide (CO2) from the air: Ca(OH)2 + CO2 --> CaCO3 + H2O.

- · 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.

10.3 Possibility of hazardous reactions

Reacts with light alloys in the presence of moisture to form hydrogen.

Reacts with strong acids and oxidising agents.

- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials:

Acids

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Aluminium

· 10.6 Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed.

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.

Acute to	Add toxiony based on available data, the slassification official are not met.				
· LD/LC50 values relevant for classification:					
1305-62-0 calcium dihydroxide					
Oral LD50 7,340 mg/kg (rat)		7,340 mg/kg (rat)			
13463-67	13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]				
Inhalative	Inhalative ATE mix (4h) >5 mg/l (inhalative)				
	ATE mix	>2,000 mg/kg (dermal)			
	>2,000 mg/kg (orally)				
	NOAEL	3,500 mg/kg /Oral (rat) (90d)			

· Skin corrosion/irritation

Causes 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.
- · 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.
- · Aspiration hazard 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.

Subacute to chronic toxicity:

· Repeated dose toxicity

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

Inhalative NOAEC 10 mg/m³ (rat) (90d)

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Not applicable

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· 11.2 Information on other hazards

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· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:		
	0 calcium dihydroxide	
CL 50/96	h 160 mg/l (fish)	
13463-67-7 titanium dioxide [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]		
NOEC	≥100,000 mg/kg (Freshwater sediment) Hyalella azteca	
EC50	>100 mg/kg (Freshwater algae) (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.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable
- · vPvB: Not applicable
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · 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.

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

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

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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.

· European waste catalogue

08 01 11* | waste paint and varnish 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 informa	tion
· 14.1 UN number or ID number · ADR, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant:	No
· 14.6 Special precautions for user	Not applicable
· 14.7 Maritime transport in bulk accordi	ing to Not applicable
· 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.
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· 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.
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)

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))

Not relevant.

· ANNEX I EXPORT SUBSTANCES DECLARABLE FOR EXPLOSIVES in quantities > 1%.

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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

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· 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.

H351 Suspected of causing cancer.

- Department issuing SDS: KEIMFARBEN Germany, Product safety department
- · Version number of previous version: 14.0
- 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)

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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