

Safety data sheet

according to 1907/2006/EC, Article 31

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

1.1 Product identifier *Neuburg Siliceous Earth, surface-treated*

Safety Data Sheet

Voluntary safety data sheet:

This product is not a dangerous substance. Therefore, it does not require a safety data sheet. We are able to provide a data sheet on a voluntary basis in line with the 1907/2006 REACH regulation.

Trade name: AKTISIL AM

AKTISIL MAM

AKTISIL MAM-R

AKTISIL MM

AKTISIL PF 216

AKTISIL PF 777

AKTISIL Q

AKTISIL VE

AKTISIL VM 56

AKTISIL VM 56/89

Registration number

As a surface-treated substance, it is exempted from the registration obligation in accordance with Regulation 1907/2006/EC (REACH).

Nanoform:

According to the REACH Regulation (EC) 1907/2006, the product is not defined as 'nanoform'.

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

Application of the substance / the mixture

As functional fillers for elastomers, plastics, paints and varnishes, adhesives, polishing and protective agents, welding electrodes, as well as in the construction and chemical industries.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

HOFFMANN MINERAL GmbH

Münchener Straße 75

D - 86633 Neuburg/Donau

Tel.: +49 (8431) 53-0

www.hoffmann-mineral.com

Further information obtainable from: info@hoffmann-mineral.com

1.4 Emergency telephone number:

+49 (0) 84 31 53-0

(Not available outside office hours!)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

Additional information:

Due to a cryptocrystalline silica alveolar dust content of < 0.1% by weight (DIN EN 15051-3), classification in accordance with Regulation (EC) 1272/2008 is not required.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Information concerning particular hazards for human and environment:

Due to the potential for generation of airborne respirable cryptocrystalline silica (cryp. CS), lung fibrosis cannot be ruled out. Prolonged inhalation of large amounts of cryp. CS A-dust (> 0.10 mg/m³) may lead to silicosis. Occupational exposure to cryp. CS A-dust should be monitored and controlled (-> see section 8.2.).

2.3 Other hazards

Results of PBT and vPvB assessment

The product is a natural inorganic substance of natural origin and, according to Article VIII of the 1907/2006 (REACH) regulation (EC), does not meet the criteria for PBT or vPvB substances.

PBT: Not applicable.

vPvB: Not applicable.

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 15.04.2024

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(Contd. of page 1)

Determination of endocrine-disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances**Description:**

AKTISIL products are based on Neuburg Siliceous Earth and coated with various bonding agents.

Neuburg siliceous earth is an inorganic compound originating in nature and made up of amorphous and cryptocrystalline silica and lamellar kaolinite.

As a unique mineralogical unit, Neuburg siliceous earth has been assigned the following specific identification number(s).

CAS No. Description

1020665-14-8 Neuburg siliceous earth

Identification number(s) EINECS: 310-127-6

Additional information:**(Mineralogical structure)**

7631-86-9 Cryptocrystalline Silica (alveolar dust quantity: < 0.1% by weight)

7631-86-9 Amorphous Silica

1318-74-7 Kaolinite

Bonding agents:

Various organofunctional silanes and/or paraffinis: The exact chemical composition and concentration of the bonding agents is part of company know-how and, therefore, confidential.

Nanoform According to the REACH Regulation (EC) 1907/2006, the product is not defined as 'nanoform'.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: In any cases of doubt or if symptoms are present, seek medical advice.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Wash the areas of skin affected with water and a mild detergent.

After eye contact:

Possible discomfort is due to foreign substance effect.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: No special measures required.

4.2 Most important symptoms and effects, both acute and delayed

Due to the potential for generation of airborne respirable cryptocrystalline silica (cryp. CS), lung fibrosis cannot be ruled out. Prolonged inhalation of large amounts of cryp. CS A-dust (> 0.10 mg/m³) may lead to silicosis.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

The product is not flammable.

In case of fire, the following can be released:

Traces of sulfur dioxide (only applies to products: AKTISIL MM and AKTISIL PF 216)

5.3 Advice for firefighters**Protective equipment:**

The normal measures for firefighting are to be taken.

Do not enter the hazardous area without a self-contained breathing apparatus.

See Section 8 for information on personal protection equipment.

EN

(Contd. on page 3)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid formation of dust.

If the atmosphere is particularly dusty, breathing apparatus must be worn.

For non-emergency personnel

The usual precautionary measures are to be adhered to when handling chemicals.

For emergency responders Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Avoid release to the environment.

6.3 Methods and material for containment and cleaning up:

Avoid dry sweeping and use water spraying or vacuum cleaning (minimum dust class M) for removal.

Keep in closed containers, ready for disposal.

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

Prevent formation of dust.

Provide suction extractors if dust is formed.

Use suitable respiratory protective device in case of insufficient ventilation.

Handle packaged products carefully to prevent accidental bursting.

Any unavoidable deposit of dust must be regularly removed.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Keep container tightly sealed.

Ensure that dust-protection measures are in place during silo loading.

Information about storage in one common storage facility:

No special measures required.

Observe local/state/federal regulations.

Further information about storage conditions: Store in dry conditions.

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:

a concentration of $\leq 0.10 \text{ mg/m}^3$ (average value for one shift) is observed for cryp. CS A-dust, it is highly likely that employees will not suffer from any silicotic disease.

Activities performed in dusty atmospheres must be monitored: dust samples must be taken in accordance with EN 481 and TRGS 402/A-dust concentration of cryptocrystalline in accordance with BIA 8522 (FTIR)

8.2 Exposure controls

Suitable technical control devices

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Remove soiled clothing and wash it before wearing again.

Respiratory protection:

If A-dust exceeds the concentration of 0.10 mg/m^3 cryp. CS, wear an appropriate fine-dust filter mask (FFP 2).

Hand protection Not required in normal cases.

Safety data sheet

according to 1907/2006/EC, Article 31

(Contd. of page 3)

Eye/face protection Safety glasses with side shields
Environmental exposure controls No specific requirements.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Solid
Colour:	White to beige
Odour:	Odourless
Melting point/freezing point:	> 1600 °C
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not applicable
Upper:	Not applicable
Flash point:	Not applicable.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
pH (400 g/l) at 20 °C	5 - 9
Viscosity:	
Kinematic viscosity	Not applicable.
Solubility water:	negligible DIN ISO 787 / 3
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	2.6 g/cm ³ (DIN ISO 787 / 10)
Vapour density	Not applicable.
Particle characteristics	D50 = 2-4µm / D97 = 9-18µm (ISO 13320) Grain shape: Corpuscular/lamellar Nanoform: According to the REACH Regulation (EC) 1907/2006, the product is not defined as 'nanoform'.

9.2 Other information

Appearance:	
Form:	Powder
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not applicable.

Information with regard to physical hazard 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

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

(Contd. of page 4)

Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity Inert, not reactive.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid See Section 7 for information on safe handling.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Traces of sulfur dioxide (only applies to products: AKTISIL MM and AKTISIL PF 216)

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.

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

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

Prolonged inhalation of large amounts of cryp. CS A-dust (> 0.10 mg/m³) may lead to silicosis. Due to cryp. CS A-dust (DIN EN 15051-3) amounting to < 0.1% by weight, classification in accordance with Regulation (EC) 1272/2008 is not required.

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

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with health effects.

Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

Neuburg Siliceous earth belongs to the mineralogical class of silicates/oxides, these are commonly found in the earth's crust. They have no known harmful effects on the environment, nor are such effects to be expected.

There are no ecotoxicological data available on this product.

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential Not relevant (Some organisms accumulate Si(OH)₄)

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

According to the current state of scientific knowledge, there is no data for the product regarding endocrine disrupting properties with effects on the environment.

(Contd. on page 6)

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

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(Contd. of page 6)

15.2 Chemical safety assessment:

As a surface-treated substance, it is exempted from the registration obligation in accordance with Regulation 1907/2006/EC (REACH).

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.

Date of previous version: 01.06.2023

Version number of previous version: 5.01

Abbreviations and acronyms:

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = letal Concentration

EC50 = half maximal effective concentration

log POW = Octanol / water partition coefficient

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ATE: acute toxicity estimate

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

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

IOELV = indicative occupational exposure limit values

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

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