

1 Identification

Product identifier

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

CAS Number: see information in section 3

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.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

HOFFMANN MINERAL GmbH
Münchener Straße 75
D - 86633 Neuburg (Donau)
Phone: +49 (0) 8431 53-0
Fax: +49 (0) 8431 53-3 30
www.hoffmann-mineral.com
info@hoffmann-mineral.com

Importer:

AZELIS AMERICAS CASE LLC.
225 Pictoria Drive Suite 550
Cincinnati, Ohio 45246, USA
Phone: +1 800 5431121

E-mail competent person: info@hoffmann-mineral.com

Information department: see supplier or distributor

Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

2 Hazard(s) identification

Classification of the substance or mixture

Due to a cryptocrystalline silica alveolar dust content of < 0.1% by weight (DIN EN 15051-B), classification in accordance with HCS2012 is not required.

The substance is not classified, according to the Globally Harmonized System (GHS).

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.

Label elements

Hazard pictograms Void

Signal word Void

Hazard statements Void

Classification system: Hazard Communication Standard (HCS 2012)

3 Composition/information on ingredients

Chemical characterization: Substances

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.

CAS No. Description

Neuburg Siliceous Earth is defined under the following CAS number(s):

Identification number(s)

TSCA

7631-86-9 Silica

1332-58-7 Kaolin

Additional information:

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.

4 First-aid measures

Description of first aid measures

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

Inhalation:

Supply fresh air.

Remove victim from contaminated area. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Call a doctor.

Skin contact:

Wash with water and soap.

Do not use solvents or thinners.

If skin irritation continues, consult a doctor.

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.

Ingestion:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting

Never give anything by mouth to an unconscious person.

If symptoms persist consult doctor.

Most important symptoms and effects, both acute and delayed

Breathing difficulty

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.

Indication of any immediate medical attention and special treatment needed Symptomatic treatment

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture

Non-combustible. No hazardous thermal decomposition.

In case of fire, the following can be released:

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

Advice for firefighters

Protective equipment:

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

See Section 8 for information on personal protection equipment.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions:

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

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Avoid formation of dust. Use a tested and approved industrial vacuum cleaner for collecting dust.

Send for recovery or disposal in suitable receptacles.

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.

7 Handling and storage

Precautions for safe handling

Prevent formation of dust.

Provide suction extractors if dust is formed.

Carry out filling operations only at sites with extractors available.

Any deposit of dust which cannot be avoided must be regularly removed.

Information about protection against explosions and fires:

Observe the general rules of industrial fire protection.

Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store receptacles tightly closed at a cool and dry place with sufficient ventilation

Store in original container wherever possible.

Information about storage in one common storage facility: Observe local/state/federal regulations.

Further information about storage conditions: Store in dry conditions.

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

8 Exposure controls/personal protection

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

Control parameters

Components with limit values that require monitoring at the workplace:

CAS: 7631-86-9 Cryptocrystalline Silica

TWA	Long-term value: $\leq 0.10 \text{ mg/m}^3$ Recommendation HOFFMANN MINERAL
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CAS: 1332-58-7 Kaolin

PEL	Long-term value: $15^* 5^{**} \text{ mg/m}^3$ * total dust **respirable fraction
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REL	Long-term value: $10^* 5^{**} \text{ mg/m}^3$ *total dust **respirable fraction
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TLV	Long-term value: 2^* mg/m^3 E; as respirable fraction
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Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

All protective equipment used shall be according to 29 CFR.1910 Subpart I Personal Protective Equipment

Vacuum clean contaminated clothing. Do not blow or brush off contamination.

Wash hands before breaks and at the end of work.

Do not inhale dust / smoke / mist.

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Do not eat or drink while working.

Immediately remove soiled, soaked clothing and use again only after washing.

Breathing equipment:

Use suitable respiratory protective device in case of insufficient ventilation.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

If A-dust exceeds the concentration of 0.10 mg/m³ cryp. CS, wear an appropriate fine-dust filter mask N95 (NIOSH Approved).

Protection of hands: No chemical-protective gloves required.

Eye protection: Safety glasses with side shields

Body protection: Not required.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Powder
Color: White to beige
Odor: Odorless

pH-value at 20°C (68°F) (400 g/l) at 20 °C (68 °F): 5 - 9

Change in condition

Melting point/Melting range: Not applicable
Boiling point/Boiling range: Not applicable.
Flash point: Not applicable.
Flammability (solid, gaseous): Product is not flammable.
Auto igniting: Not applicable
Decomposition temperature: Not determined.
Ignition temperature: Not determined.
Danger of explosion: Product does not present an explosion hazard.
Explosion limits:
Lower: Not applicable
Upper: Not applicable
Vapor pressure: Not applicable
Density at 20°C (68 °F): 2.6 g/cm³ (21.697 lbs/gal)
Relative density Not determined.
Vapor density Not applicable
Evaporation rate Not applicable.
Solubility in / Miscibility with
Water: practically insoluble.
Partition coefficient (n-octanol/water): Not determined.
Viscosity:
Dynamic: Not applicable
Kinematic: Not applicable

Other information No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.

Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products:

No hazardous decomposition products if instructions for storage and handling are followed

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

US
(Contd. on page 5)

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification: No toxicity data are available for the product itself.

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

on respiratory tract: No data available

Sensitization: No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

IARC (International Agency for Research on Cancer)

CAS: 7631-86-9 Silica

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NTP (National Toxicology Program) Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

Aspiration hazard

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.

Prolonged inhalation of large amounts of alveolar dust (> 0.10 mg/m³) may lead to silicosis.

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

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability No further relevant information available.

Behavior in environmental systems:

Bioaccumulative potential No further relevant information available.

Mobility in soil No further relevant information available.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number

DOT, ADR/RID/ADN, IMDG, IATA Void

UN proper shipping name

DOT, ADR/RID/ADN, IMDG, IATA Void

(Contd. of page 5)

Transport hazard class(es) DOT, ADR/RID/ADN, ADN, IMDG, IATA Class	Void
Packing group DOT, ADR/RID/ADN, IMDG, IATA	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above regulations.
UN "Model Regulation":	Void

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara

Section 355 (extremely hazardous substances): Substance is not listed.

Section 313 (Specific toxic chemical listings): Substance is not listed.

TSCA (Toxic Substances Control Act):

CAS: 7631-86-9 Silica

CAS: 1332-58-7 Kaolin

Proposition 65

Chemicals known to cause cancer:

CAS: 7631-86-9 Cryptocrystalline Silica
A-dust in Cryptocrystalline Silica < 0.1% by Weight

Chemicals known to cause reproductive toxicity for females: Substance is not listed.

Chemicals known to cause reproductive toxicity for males: Substance is not listed.

Chemicals known to cause developmental toxicity: Substance is not listed.

Carcinogenic categories

EPA (Environmental Protection Agency) Substance is not listed.

TLV (Threshold Limit Value established by ACGIH) 1332-58-7 Kaolin: A4

NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.

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.

Contact:

Date of preparation / last revision 05/24/2023

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

DOT: US Department of Transportation

IATA: International Air Transport Association

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

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Safety Data Sheet
acc. to OSHA HCS



Printing date 05/24/2023

Reviewed on 05/24/2023

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TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

Sources

"Regulation (EC) Nr. 1907/2006 (REACH), 1272/2008 (CLP), 648/2004 (Detergents) in the respective valid version. National occupation exposure limits for each country in the respective valid version. Transportation regulations according to ADR, RID, IMDG, IATA in the respective valid version."

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

Changes have been made to sections marked with a *, as compared to the previous version.

US