

Safety Data Sheet

according to HPR, Schedule 1

Printing date 03/18/2020

Reviewed on 08/22/2018

1 Identification

Product identifier
Trade name: AKTISIL AM, MAM, MAM-R, MM, PF 216, PF 777, Q, VE, VM 56
CAS Number: see information in section 3

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

Information department:
Distributor:

 ChemSpec Ltd.
 1559 Corporate Woods Parkway, Suite 150
 Uniontown, Ohio 44685.
 USA
 Phone: 0330-869-0355
 Toll Free: 0800-200-4753

 AZELIS CANADA INC.
 235 ADVANCE BLVD
 UNIT 1, BRAMPTON, ON
 L6T 4J2, CANADA
 PHONE: +1 905 4537131

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

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 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 WHMIS 2015 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
GHS label elements Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Classification system: Workplace Hazardous Materials Information System (WHMIS 2015)

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.

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vPvB: Not applicable.

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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)
Canadian DSL

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.

After inhalation:

Supply fresh air.

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

After skin contact:

Wash with water and soap.

Do not use solvents or thinners.

If skin irritation continues, consult a doctor.

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:

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.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

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)

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Advice for firefighters
Protective equipment: Wear self-contained respiratory protective device.

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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Handling:
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: Not required.

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 item 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

EL	Long-term value: 2 mg/m^3
EV	Long-term value: $2(D) \text{ mg/m}^3$ respirable

Additional information: The lists that were valid during the creation were used as basis.

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Exposure controls
Personal protective equipment:
General protective and hygienic measures:

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.

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.

 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
Odor threshold:	Not determined.

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

Ignition temperature: Not applicable

Decomposition temperature: Not determined.

Auto igniting: 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/cm ³
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

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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)

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

on the eye: Based on available data, the classification criteria are not met.

on respiratory tract: No data available

Sensitization: Based on available data, the classification criteria are not met.

Additional toxicological information:
Carcinogenic categories
IARC (International Agency for Research on Cancer)

CAS: 7631-86-9 Silica	3
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NTP (National Toxicology Program) Substance is not listed.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
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.

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.

Additional ecological information:
General notes: Not hazardous for water.

Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

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Other adverse effects No further relevant information available.

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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/TDG, ADR, IMDG, IATA Void

UN proper shipping name
DOT/TDG, ADR, IMDG, IATA Void

Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA
Class Void

Packing group
DOT/TDG, ADR, IMDG, IATA Void

Environmental hazards:
Marine pollutant: No

Special precautions for user 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
Canadian substance listings:
Canadian Domestic Substances List (DSL)

CAS: 7631-86-9 Silica

CAS: 1332-58-7 Kaolin

Canadian Ingredient Disclosure list (limit 0.1%) Substance is not listed.

Canadian Ingredient Disclosure list (limit 1%)

CAS: 7631-86-9 Silica

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 the latest revision of the safety data sheet 03/18/2020 / 4.00

Abbreviations and acronyms:

NOEL = No Observed Effect Level

NOEC = No Observed Effect Concentration

LC = lethal 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

IMDG: International Maritime Code for Dangerous Goods

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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

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

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

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