

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 21.11.2018

Version: 3.02

Revision: 21.11.2018

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

**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.

**1.1 Product identifier** Neuburg Siliceous Earth, calcined

**Trade name:** SILFIT Z 91, SILFIT Z91/AL1

**CAS Number:**

1214268-39-9

**Registration number**

Exempt from the requirement to register in accordance with Article V (7) of the 1907/2006 (REACH) regulation (EC).

(Natural substances, provided they have not been chemically modified)

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

No further relevant information available.

**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

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**Further information obtainable from:** info@hoffmann-mineral.com  
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**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 cryptocrystalline silica (cryp. CS) amounting to < 0.1% by weight (DIN EN 15051-3), classification in accordance with Regulation (EC)1272/2008 is not required.

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**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/m<sup>3</sup>) 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.

### SECTION 3: Composition/information on ingredients

**3.1 Substances**

**Description:**

The SILFIT qualities are products based on calcined Neuburg Siliceous earth.

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Calcined Neuburg Siliceous Earth is an inorganic compound originating in nature and made up of amorphous and cryptocrystalline silica and lamellar kaolinite which has been treated thermally.

As a unique mineralogical entity, calcined Neuburg Siliceous Earth has been assigned the following specific identification number(s).

**Components**
**CAS No. Description**

1214268-39-9 Siliceous Earth, calcined

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

**Additional information:**
**(Mineralogical structure)**

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

7631-86-9 Amorphous Silica

92704-41-1 Calcined Kaolin

### 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:**

Generally the product does not irritate the skin.

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**

No further relevant information available.

**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 itself does not burn, nor does it release any hazardous decomposition products.

**5.3 Advice for firefighters**

**Protective equipment:** The normal measures for firefighting are to be taken.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

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

**6.2 Environmental precautions:** No special measures required.

**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.

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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.

**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.

#### 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  $0.10 \text{ mg/m}^3$  cryp. CS, wear an appropriate fine-dust filter mask (FFP 2).

**Protection of hands:** Not required in normal cases.

**Eye protection:** Safety glasses with side shields

**Limitation and supervision of exposure into the environment** No specific requirements.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

Form:	Powder
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.

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

##### Change in condition

**Melting point/freezing point:**  $>1600 \text{ °C}$   
**Initial boiling point and boiling range:** Not applicable.

**Flash point:** Not applicable.

**Flammability (solid, gas):** Product is not flammable.

**Ignition temperature:** Not applicable.

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<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not applicable.
<b>Density at 20 °C:</b>	2.6 g/cm <sup>3</sup> (DIN ISO 787 / 10)
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Solubility in / Miscibility with water:</b>	negligible DIN ISO 787 / 3
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not applicable.
<b>Kinematic:</b>	Not applicable.
<b>9.2 Other information</b>	<b>Grain shape:</b> Corpuscular/lamellar

### 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:** No dangerous decomposition products known.

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

**Primary irritant effect:**

**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.

#### 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

Prolonged inhalation of large amounts of cryp. CS A-dust (> 0.10 mg/m<sup>3</sup>) 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.

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

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### SECTION 12: Ecological information

#### 12.1 Toxicity

The substances listed under section 3., "Composition/information on ingredients", belong to the mineralogical class of silicates/oxides and are commonly found in the earth's crust. They have no known harmful effects on the environment, nor are such effects to be expected.

**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)<sub>4</sub>)

**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 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

This material is not classified as hazardous waste according to Commission Decision 2008/998/EC and 2000/532/EC.

#### Recommendation

Can be landfilled in compliance with local regulations. Where possible, recycling is preferred to disposal. The material should be stored in sealed containers to prevent the formation of dust.

#### Waste disposal key:

For this product no waste code are defined according to the European Waste Catalogue, as the intended use by the user enables an allocation.

The waste code must be defined in agreement with the regional waste disposers.

**Waste name:** Silica waste

#### Uncleaned packaging:

#### Recommendation:

Empty containers should be recycled, recovered or disposed of locally.

**Caution:** Dust may form when folding empty paper bags and big-bags. Ensure that appropriate health and safety measures are in place.

### SECTION 14: Transport information

#### 14.1 UN-Number

ADR, IMDG, IATA                      Void

#### 14.2 UN proper shipping name

ADR, IMDG, IATA                      Void

#### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class                                      Void

#### 14.4 Packing group

ADR, IMDG, IATA                      Void

**14.5 Environmental hazards:** Not applicable.

**14.6 Special precautions for user** Not applicable.

**UN "Model Regulation":** Void

### SECTION 15: Regulatory information

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

##### International substance lists/inventories:

The product is listed in or excluded from the following substance lists/inventories:

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- REACH (European Union)
- IECSC (China)
- ENCS/CSCL (Japan)
- TSCA (USA)
- DSL (Canada)
- KECI (Republic of Korea)
- NZIoC (New Zealand)
- PICCS (Philippines)
- TSCA/TCSI (Taiwan)

**National regulations:****Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles must be observed.

**15.2 Chemical safety assessment:**

Exempted from REACH registration in accordance with Annex V.7.

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.

**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

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

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.**

EN