

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

Printing date 04.07.2022

Version: 4.00 (replaces version 3.03)

Revision: 04.07.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier Neuburg Siliceous Earth, calcined

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: 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
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.

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.

EN

(Contd. on page 2)

SECTION 3: Composition/information on ingredients

3.1 Substances

Description:

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

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: < 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: 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 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.

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

See Section 8 for information on personal protection equipment.

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: 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.

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

Printing date 04.07.2022

Version: 4.00 (replaces version 3.03)

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(Contd. of page 2)

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.

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
Odour:	Odourless
Melting point/freezing point:	>1600 °C

(Contd. on page 4)

-EN

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.07.2022

Version: 4.00 (replaces version 3.03)

Revision: 04.07.2022

(Contd. of page 3)

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: ~2.0/ D97: ~10 µm (ISO 13320) Grain shape: Corpuscular/lamellar

9.2 Other information

Appearance:	
Form:	Powder
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not applicable.
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
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.

(Contd. on page 5)

EN

10.6 Hazardous decomposition products: No dangerous decomposition products known.

(Contd. of page 4)

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.

LD/LC50 values relevant for classification: 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 ($> 0.10 \text{ mg/m}^3$) 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

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 $\text{Si}(\text{OH})_4$)

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.

12.7 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.

(Contd. on page 6)

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

Printing date 04.07.2022

Version: 4.00 (replaces version 3.03)

Revision: 04.07.2022

(Contd. of page 5)

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 or ID number
 ADR/RID/ADN, IMDG, IATA

Void

14.2 UN proper shipping name
 ADR/RID/ADN, IMDG, IATA

Void

14.3 Transport hazard class(es)
 ADR/RID/ADN, ADN, IMDG, IATA
 Class

Void

14.4 Packing group
 ADR/RID/ADN, IMDG, IATA

Void

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO
 instruments

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:

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

European Directives:**Directive 2010/75/EU (VOC)** not subject to**Catégorie SEVESO (DIRECTIVE 2012/18/EU)** not subject to
REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.**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.

EN

(Contd. on page 7)

Safety data sheet
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Version: 4.00 (replaces version 3.03)

Revision: 04.07.2022

(Contd. of page 6)

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: 18.03.2020**Version number of previous version:** 3.03**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 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IOELV = indicative occupational exposure limit values

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.**

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