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

Printing date 04.12.2024 *Version: 1.00* *Revision: 07.10.2024*

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

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

Trade name: SILFIT Z 93
Registration number
Exempt from the requirement to register in accordance with Article V (7) of the 1907/2006 (UK REACH) regulation (EC).
(Natural substances, provided they have not been chemically modified)
Nanoform:
According to the UK 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 product is not classified, according to the GB 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 (UK 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 UK 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

3.2 Mixtures
Description:
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.

(Contd. on page 2)

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

Printing date 04.12.2024 *Version: 1.00* *Revision: 07.10.2024*

Trade name: SILFIT Z 93

(Contd. of page 1)

Dangerous components: *No hazardous ingredients according to Regulation (EC) No. 1272/2008.*
Additional information:
Nanoform:
According to the UK 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:
Remove soiled clothing
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.
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.
If symptoms persist consult doctor.
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.
Water spray
Fire-extinguishing powder
Foam
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.
Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Avoid formation of dust.
Wear protective clothing.
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.*

(Contd. on page 3)

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

HOFFMANN MINERAL®

Printing date 04.12.2024 Version: 1.00 Revision: 07.10.2024

Trade name: SILFIT Z 93

(Contd. of page 2)

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 ≤ 0.10 mg/m³ (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/m³ cryp. CS, wear an appropriate fine-dust filter mask (FFP 2).
Hand protection
Based on general industrial hygine recommendations when handling chemicals the following recommendation is given:
PVC coated cotton gloves (e.g. EN 388, 374)
nitrile coated cotton gloves (e.g. EN 388, 374)
Eye/face protection *Safety glasses with side shields*

(Contd. on page 4)

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

Printing date 04.12.2024 *Version: 1.00* *Revision: 07.10.2024*

Trade name: SILFIT Z 93

(Contd. of page 3)

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:	>1,300 °C
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	Product is not flammable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
pH at 20 °C	6 - 8.5
Viscosity:	
Kinematic viscosity	Not applicable.
Solubility	
water:	Insoluble.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	ca. 2.7 g/cm³
Relative density	Not determined.
Bulk density:	280 kg/m³
Vapour density	Not applicable
Particle characteristics	D50 ≤ 2.4 µm; D97 ≤10.5 µm (ISO 13320:2009 / Cilas)
9.2 Other information	
Appearance:	
Form:	Powder
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
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

(Contd. on page 5)

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

HOFFMANN MINERAL®

Printing date 04.12.2024 Version: 1.00 Revision: 07.10.2024

Trade name: SILFIT Z 93

(Contd. of page 4)

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: No dangerous decomposition products known.

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.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: Negative ecological effects are not expected according to current knowledge.
12.2 Persistence and degradability
Anorganic product, is not eliminable from water by means of biological cleaning processes.
12.3 Bioaccumulative potential
Accumulation in organisms is not to be expected. Because of the product's consistency and low water solubility, bioavailability is improbable.
12.4 Mobility in soil No further relevant information available.
12.5 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 (UK REACH) regulation (EC), does not meet the criteria for PBT or vPvB substances.
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

HOFFMANN MINERAL®

Printing date 04.12.2024 *Version: 1.00* *Revision: 07.10.2024*

Trade name: SILFIT Z 93

(Contd. of page 5)

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.

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.*
UN "Model Regulation":	*Void*

SECTION 15: Regulatory information

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

Regulated explosives precursors
None of the ingredients is listed.

Regulated poisons
None of the ingredients is listed.

Reportable explosives precursors
None of the ingredients is listed.

Reportable poisons
None of the ingredients is listed.

European Directives:
Directive 2010/75/EU (VOC) *not subject to*
Catégorie SEVESO (DIRECTIVE 2012/18/EU) *not subject to*

(Contd. on page 7)

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

Printing date 04.12.2024 Version: 1.00 Revision: 07.10.2024

Trade name: SILFIT Z 93

(Contd. of page 6)

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is 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 UK REACH registration in accordance with Annex V.7.
A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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 UK REACH regulation.
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.
The information provided here is accurate and reliable to the best of HOFFMANN MINERAL's knowledge and belief. However, no warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of the information provided for his own specific application.

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
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
IOELV = indicative occupational exposure limit values