

## Safety Data Sheet

acc. to OSHA HCS

Printing date 08/22/2018

Reviewed on 08/22/2018

### 1 Identification

**Product identifier**

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

**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:**

Importer (all but rubber and plastic):

GMZ Inc.  
5115 Excell Court  
West Chester, Ohio 45069, USA  
Phone: +1 (0) 513-860-9300  
Toll Free: +1 800-543-1121  
Fax: +1 (0) 513-870-5210

Importer (rubber and plastic):

ChemSpec Ltd.  
559 Corporate Woods Parkway, Suite 150  
Uniontown, Ohio 44685, USA  
Phone: +1 (0) 330-869-0355  
Toll Free: +1 800-200-4753

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

**Information department:** see supplier or importer

**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 cryptocrystalline silica (cryp. CS) A-dust (DIN EN 15051-B) amounting to < 0.1% by weight, 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 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.

**Label elements**

**Hazard pictograms** Void

**Signal word** Void

**Hazard statements** Void

**Classification system:** Hazard Communication Standard (HCS 2012)

**Other hazards**
**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

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**3 Composition/information on ingredients****Chemical characterization: Substances**

Calcined Neuburg Siliceous Earth, also known by the trade names SILFIT, is one in nature originated inorganic compound of amorphous and cryptocrystalline silica and lamellar kaolinite which has been treated thermally.

**CAS No. Description**

SILFIT is defined under the following CAS number(s):

**Identification number(s)****TSCA**

7631-86-9 Silica

92704-41-1 Kaolin, calcined

**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:**

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:**

CO<sub>2</sub>, 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.

**Advice for firefighters**

**Protective equipment:** Wear self-contained respiratory protective device.

**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.

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**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:** 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  $\leq 0.10 \text{ mg/m}^3$

Recommendation HOFFMANN MINERAL

**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.

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  $0.10 \text{ mg/m}^3$  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

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**Body protection:** Not required.

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### 9 Physical and chemical properties

#### Information on basic physical and chemical properties

##### General Information

##### Appearance:

<b>Form:</b>	Powder
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not determined.

**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.

**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<sup>3</sup> (21.697 lbs/gal)

**Relative density** Not determined.

**Vapor density** Not applicable

**Evaporation rate** Not applicable.

##### Solubility in / Miscibility with

**Water:** Slightly soluble.

**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.

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**Hazardous decomposition products:**

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

**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:**

**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.

**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.

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**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.

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### 14 Transport information

**UN-Number**

DOT, ADR, IMDG, IATA      Void

**UN proper shipping name**

DOT, ADR, IMDG, IATA      Void

**Transport hazard class(es)**

 DOT, ADR, ADN, IMDG, IATA  
Class      Void

**Packing group**

DOT, ADR, IMDG, IATA      Void

**Environmental hazards:**
**Marine pollutant:**      No

**Special precautions for user**      Not applicable.

**Transport in bulk according to Annex II of  
MARPOL 73/78 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: 92704-41-1      Kaolin, calcined

**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)** Substance is not listed.

**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.

**Date of preparation / last revision** 08/22/2018 / 2.99

**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

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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

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 &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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

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

US