

Safety Data Sheet according to HPR, Schedule 1

Printing date 2023-05-24

Reviewed on 2023-05-24

1 Identification

Product identifier

Trade name: SILFIT Z 91
SILFIT Z91/AL1

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:

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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)

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)

Canadian DSL

7631-86-9 Silica

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92704-41-1 Kaolin, calcined

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4 First-aid measures

Description of first aid measures

General information: In any cases of doubt or if symptoms are present, seek medical advice.

Inhalation:

Supply fresh air.

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

Skin contact:

Wash with water and soap.

Do not use solvents or thinners.

If skin irritation continues, consult a doctor.

Eye contact:

Rinse opened eye for several minutes under running water.

If symptoms persist, consult a doctor.

Ingestion:

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.

Most important symptoms and effects, both acute and delayed

Breathing difficulty

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.

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.

Advice for firefighters

Protective equipment:

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

See Section 8 for information on personal protection equipment.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

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.

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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: Observe local/state/federal regulations.

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

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/m^3 cryp. GS, 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
Odor:	Odorless

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.

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Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Auto igniting:	Not applicable
Decomposition temperature:	Not determined.
Ignition temperature:	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:	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.

Hazardous decomposition products:

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:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Carcinogenic categories

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

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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.

Prolonged inhalation of large amounts of alveolar dust (> 0.10 mg/m³) may lead to silicosis.

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.

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.

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

No further relevant information available.

Canadian substance listings:

Canadian Domestic Substances List (DSL)

CAS: 7631-86-9	Silica
CAS: 92704-41-1	Kaolin, calcined

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

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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.

Contact:

Date of the latest revision of the safety data sheet 2023-05-24

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

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

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.**

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

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