Safety Data Sheet
acc. to OSHA HCS

Printing date 05/24/2023 Reviewed on 05/24/2023

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1 Identification

Product identifier

Trade name: SILFIT Z 91
SILFIT Z91/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
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Cincinnati, Ohio 45246, USA
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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 a cryptocrystalline silica alveolar dust content of < 0.1% by weight (DIN EN 15051-B), 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 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
Hazard pictograms Void
Signal word Void
Hazard statements Void
Classification system: Hazard Communication Standard (HCS 2012)

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

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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.
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

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	≤ 0.10 mg/m³ 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 mg/m³ 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
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 (68 °F):	5 - 9

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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.
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/cm³ (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.
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

IARC (International Agency for Research on Cancer)		
CAS: 7631-86-9	Silica	3

NTP (National Toxicology Program) Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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Aspiration hazard

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.
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.*
Behavior in environmental systems:
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, ADR/RID/ADN, IMDG, IATA***	*Void*
UN proper shipping name ***DOT, ADR/RID/ADN, IMDG, IATA***	*Void*
Transport hazard class(es) ***DOT, ADR/RID/ADN, ADN, IMDG, IATA*** ***Class***	*Void*
Packing group ***DOT, ADR/RID/ADN, IMDG, IATA***	*Void*
Environmental hazards: ***Marine pollutant:***	*No*
Special precautions for user	*Not applicable.*
Transport in bulk according to Annex II of MARPOL73/78 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.*

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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.

Contact:
Date of preparation / last revision 05/24/2023
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
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 & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
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 wit a *, as compared to the previous version.