
1. Identification of substance/preparation and company

Product trade names

SILLITIN V 85, V 88, N 82, N 85, N 87, Z 86, Z 89, SILLIKOLLOID P 87, and their puriss versions

REACH registration number

Exempt from the requirement to register in accordance with Article 2 § (7).

Use of substance/preparation

SILLITIN and SILLIKOLLOID are used as functional fillers for elastomers, plastics, paints and varnishes, adhesives, food additives, polishing and protective agents, and welding electrodes, as well as in the construction and chemical industries.

Manufacturer/supplier information

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2. Possible hazards

Specific hazards for people and the environment

Due to the cryptocrystalline silica, lung fibrosis cannot be ruled out. Prolonged inhalation of large amounts of dust may lead to silicosis.

Hazard identification

The product is not a dangerous substance according to EC Directive 67/548/EC.

3. Composition/information on ingredients

Chemical characterization (individual substances)

Description: Neuburg siliceous earth, also known by the trade names SILLITIN and SILLIKOLLOID, is an organic compound of amorphous and cryptocrystalline silica and lamellar kaolinite.

Components

CAS no.

7631-86-9

1318-74-7

Name according to EC Directive

Amorphous and cryptocrystalline silica

Kaolinite

EC classification

No classification

No classification

EINECS number: 310-127-6

4. First aid measures

General information

No special measures.

Inhalation

Breathe fresh air. In the event of breathing difficulties, consult a doctor.

Skin contact

Wash off with plenty of water.

Eye contact

Rinse thoroughly with water, including underneath the eyelids.

Ingestion

No special measures.

5. Fire-fighting measures

Suitable extinguishing agents

The product itself does not burn, nor does it release any hazardous decomposition products.

Extinguishing agents which are unsuitable on grounds of safety

None

Specific hazards arising from the substance or product itself, its combustion products, or gas emissions

None

Special protective equipment for use in fire-fighting

None

6. Accidental release measures

Personal precautions

Avoid dust formation. If the atmosphere is particularly dusty, breathing apparatus must be worn.

Environmental precautions

See Point 12, "Ecological information".

Methods for cleaning up/removal

Use an industrial vacuum cleaner (minimum dust class M) for removal.

Keep in closed containers, ready for disposal.

Additional information

Where possible, recycling is preferred to disposal.

No hazardous substances are released.

7. Handling and storage

Notes on safe handling

Keep containers tightly closed. Avoid dust formation.

If dust forms, provide appropriate extraction measures.

In the event of insufficient ventilation, see Point 8.

Remove and wash soiled clothing.

Notes on fire and explosion protection

No specific fire-precaution requirements.

Requirements for storage rooms and containers

Keep containers tightly closed.

Ensure that dust-protection measures are in place during silo loading.

Further information on storage conditions

Dry storage

Storage class

Non-combustible solids

8. Exposure controls and personal protective equipment

Additional information on the design of technical plants

Adequate ventilation and extraction must be provided at processing machines and at locations where dust may form.

Ingredients with threshold limit values

If a concentration of ≤ 0.15 mg/m³ (average value for one shift) is observed for cryptocrystalline silica in the alveolar dust content, it is almost certain that employees will not suffer from any silicotic disease. Activities performed in dusty atmospheres must be monitored: dust samples taken in accordance with EN 481.

For additional information, see www.hoffmann-mineral.com.

Personal protective equipment

General precautions	Wash hands before breaks and at the end of a shift. Do not inhale dust. Do not eat or drink while working. Remove soiled clothing and wash it before wearing again.
Respiratory protection	If dust exceeds the concentration of 0.15 mg/m ³ , wear an appropriate fine-dust filter mask (FFP 2).
Hand protection	Not applicable
Eye protection	Safety glasses with side shields
Body protection	Not applicable
Hygiene measures	Keep street and work clothing separate.

Environmental exposure controls

No specific requirements.

9. Physical and chemical properties

Appearance

Physical state	Powder
Color	White to beige
Odor	Odorless

Safety-relevant data

Density at 20°C	2.6 g/cm ³
Method: DIN ISO 787 Part 10	
Solubility in water at 20°C	Insoluble
Method: DIN ISO 787 Part 8	

Further information

Detailed mineralogical tests (*Göske, report no. 7042729*) have shown that the silica content of Neuburg siliceous earth is a unique mineral specimen, which has not previously been found or described in this particular form anywhere else in the world.

For additional information, see www.hoffmann-mineral.com.

10. Stability and reactivity

Conditions to avoid

No special measures required.

Substances to avoid

No particular incompatibility.

Hazardous decomposition products

None

11. Toxicological information

Research on humans

Standardized in vivo and in vitro studies (*Bruch et al., 2001 – 2007*) designed to assess the toxicity of Neuburg siliceous earth as compared to DQ 12 standard quartz, for example, found very low levels of biological activity, which prove that the product has different properties to quartz.

We would like to draw your attention at this point to a qualifying statement found in 1997 IARC Monographs, which puts the classification of quartz as carcinogenic to humans (Group I) into perspective in a most interesting way:

“As part of their overall assessment, the IARC working group noted that a carcinogenic effect was not found in all the industrial situations examined. A carcinogenic effect may depend on the properties inherent to crystalline silica or on external factors, which influence the biological activity or the distribution of silica polymorphs.”

HOFFMANN MINERAL has over one hundred years of experience in working with Neuburg siliceous earth and has been able to draw the following conclusions:

Silicosis

If the concentration of cryptocrystalline silica found in the alveolar content in the workplace ≤ 0.15 mg/m³, it is almost certain that no silicotic disease will result.

Lung cancer

If the fine dust concentration specified above, which prevents silicosis, is observed, all associated cancer risks will also be excluded.

12. Ecological information

General information

The substances listed under Point 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.

13. Notes on disposal

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 code number No waste code number can be specified for this product in terms of the European Waste Catalogue, as the intended use must be known before the waste code number can be assigned. The waste code number must be defined by arrangement with the appropriate regional waste management company.

Waste name Silica waste

Obligation to product supporting documents (Y/N) N

Uncleaned packaging

Recommendation Empty containers should be recycled, recovered or disposed of locally.

Note Dust may form when folding empty paper bags and big-bags. Ensure that appropriate health and safety measures are in place.

14. Transport information

Further information

Not hazardous cargo according to the relevant regulations on the transport of dangerous goods (GGVS/GGVE, RID/ADR, ADNR, IMDG, IATA-DGR).

15. Regulations

Labeling The product is not subject to specific labeling requirements according to the relevant EC Directive/German Ordinance on Hazardous Substances

16. Other information

Third-party materials

If third-party materials not manufactured or supplied by HOFFMANN MINERAL are used in conjunction with, or instead of HOFFMANN MINERAL products, it is the customer's responsibility to obtain all technical data and other properties relating to these and other materials from the supplier or manufacturer, as well as all relevant information pertaining to them. No liability can be accepted in respect of the use of HOFFMANN MINERAL products in conjunction with other materials.

Liability

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.
