

SECTION 1. Identification of the substance/mixture and of the company/enterprise**1.1. Product identifier**

Product name : SILIGEL

This substance-mixture contains nanoforms (according to Reach Regulation)

Chemical Name: SILICA GEL

CAS n. : 112926-00-8

EC n. : 231-545-4

REACH N. : 01-2119379499-16-xxxx

Product code: refer to sales department

1.2. Relevant identified uses of the substance or mixture and uses advised against

Stabilizers for beer

Sectors of use:

Manufacture of food products[SU4]

Product category:

Technological adjuvant for beer use

Not recommended uses

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Pictograms:

None

Hazard Class and Category Code(s):

Non hazardous

Hazard statement Code(s):

Non hazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Non hazardous

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

None in particular.

Ingredients: Synthetic amorphous silica hydrated.

Food use, brewery use. In accordance with current regulations on the specific matter.

2.3. Other hazards

Based on available data, no PBT or vPvB substances are present according to Reg. (EC) 1907/2006, Annex XIII, in concentrations >0.1% w/w

Based on available data, no substances that disrupt the endocrine system are present according to Reg. (EU) 2017/2100 and 2018/605 in concentrations >0.1% w/w

Avoid inhaling dust

SECTION 3. Composition/information on ingredients

3.1 Substances

Synthetic hydrated amorphous silica CAS No. 112926-00-8: substance containing nanoforms (Reg EC 1907/2006), particle information: section 9 (experimental data)

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Synthetic amorphous silica hydrated (Silica gel) substance for which there are Community workplace exposure limits	100%				231-545-4	

3.2 Mixtures

Irrrelevant

SECTION 4. First aid measures

4.1. Description of first aid measures

Contact with eyes: Rinse with plenty of water. Seek medical attention.

Contact with skin: Rinse with plenty of water. If symptoms occur, seek medical attention.

In case of inhalation: Remove the person from exposure and keep them at rest. If symptoms develop, seek medical attention.

In case of ingestion: Do not induce vomiting. If a significant amount is ingested and symptoms of illness occur, consult a CAV or a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Exposure to dust can be harmful

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, go to an emergency room with this document.

Symptomatic treatment is recommended.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is compatible with all fire-fighting techniques standards.

Unsuitable extinguishing media

none in particular.

5.2. Special hazards arising from the substance or mixture

Powdery, non-combustible substance

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Move away from the area surrounding the spill or release. Do not smoke. Wear gloves and protective clothing.

6.1.2 For emergency responders:

Eliminate all open flames and possible sources of ignition. Do not smoke. Ensure adequate ventilation. Wear suitable protective clothing, eye and face protection, and an approved dust mask. Evacuate the danger area and, if necessary, consult an expert.

6.2. Environmental precautions

Synthetic amorphous silica is practically inert and has no known harmful effects on the environment.

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Vacuum or sweep up the product for disposal. Spraying with water may reduce the formation of airborne dust.

6.3.2 Cleaning up:

After collection, wash the affected area and materials with water.

6.3.3 Other information:

Synthetic amorphous silica is inert. Contain spilled material by vacuuming it up and placing it in suitable containers. Dispose of it properly.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid airborne dust formation. A significant static charge may build up during mechanical handling of the product. This may become dangerous if flammable vapors are present.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Manufacture of food products:

Handle with care. Since this is a hygroscopic product, store in a cool, dry place away from direct light and heat. Store in a clean environment, in the tightly closed original packaging.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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Related to contained substances:

Synthetic amorphous silica hydrated (Silica gel):

Silica, amorphous

Limit value - Eight hours TWA
(ppm)/(mg/m³)

Australia: -/2 (1)

Austria: -/4 (1) inhalable aerosol

Belgium: -/10

Canada – Ontario: -/10

Canada - Québec: -/6(1)(2)

Denmark: 0-/ 2 inhalable aerosol

Finland: -/5

Germany (AGS): -/1 (1)

Germany (DFG): -/0,02 (1)

Ireland: (1) -/6 (1)

Latvia: -/1

New Zealand: -/1

People's Republic of China: -/2(1)

Poland: -/10(1)

Singapore: -/10

South Africa mining: -/6 (1)

South Korea: -/10

Switzerland: -/4 (1)

USA - NIOSH: -/6

USA - OSHA: 20 (1)(2)

United Kingdom: :-/6 (1)

Limit value - Short term STEL
(ppm)/(mg/m³)

Australia: -/-

Austria: -/-

Belgium: -/-

Canada – Ontario: -/-

Canada - Québec: -/-

Denmark: 0-/-

Finland: -/-

Germany (AGS): -/8 (1)(2)

Germany (DFG): -/0.16 (1)

Ireland: (1) -/-

Latvia: -/-

New Zealand: -/-

People's Republic of China: -/-

Poland: -/-

Singapore: -/-

South Africa minining: -/-

South Korea: -/-

Switzerland: -/-

USA - NIOSH: -/-

USA - OSHA: -/-

United Kingdom: :-/-

Remarks:

Australia (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Austria (1) Inhalable fraction

Canada - Québec (1) Respirable fraction (2) The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%.

Germany (AGS): Colloidal amorphous silica including fumed silica and wet-process silica (precipitated silica, silica gel)
(1) Inhalable fraction (2) 15 minutes average value

Ireland: (1) Inhalable fraction

New Zeland: (1) Inhalable fraction

Norway: (1) Respirable fraction

People's Republic of China: (1) Inhalable fraction

Poland: (1) Inhalable fraction

South Africa Mining: (1) Inhalable fraction

Switzerland: (1) inhalable aerosol

USA (OSHA) : (1) mppcf (2) mppcf × 35.3 = million particles per cubic meter = particles per c.c.

UK: (1) Inhalable fraction

- Substance: Synthetic amorphous silica hydrated (Silica gel)

DNEL

Local effects Long term Workers inhalation = 4 (mg/m³)

8.2. Exposure controls

Appropriate engineering controls:

Use protective equipment to operate in accordance with good industrial hygiene criteria. Do not eat, drink, or smoke in the workplace. The most effective are structural prevention or control measures: process or personnel isolation systems, mechanical ventilation (extraction) devices, and verification of working conditions.

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

a) Eye/face protection

Wear side-shielded safety glasses (EN166)

b) Skin protection

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(i) Hand protection

Wear EN 374 rubber or PVC gloves

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ii) Other

Wear normal work clothes.

c) Respiratory protection

Avoid inhaling dust. If ventilation is inadequate or exposure limits are exceeded, use suitable approved protective masks.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Fine powder	
Colour	white	
Odour	odorless	
Odour threshold	not applicable	
Melting point/freezing point	>1000°C	
Boiling point or initial boiling point and boiling range	Not applicable	
Flammability	Not applicable	
Lower and upper explosion limit	Not available	
Flash point	Non-flammable	ASTM D92
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
pH	6.5 ± 0.5 (20°C; 5% sol.)	
Kinematic viscosity	Not available	

Physical and chemical properties	Value	Determination method
Solubility	Not available	
Water solubility	Soluble to a minimal extent	
Partition coefficient n-octanol/water (log value)	not available	
Vapour pressure	Not available	
Density and/or relative density	0,4 ± 0,1 (20°C)	
Relative vapour density	Not available	
Particle characteristics	This substance-mixture contains nanoforms (according to	

9.2. Other information

Particle characteristics: micron-sized aggregates and agglomerates with an internal structure in the range of 1-100 nm

9.2.1 Information with regard to physical hazard classes

Irrrelevant

9.2.2 Other safety characteristics

Irrrelevant

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

Stable. Hygroscopic.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Avoid humidity

10.5. Incompatible materials

Nothing in particular

10.6. Hazardous decomposition products

No hazardous decomposition products are known

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

(a) Acute toxicity:

Ingestion - LD50 rat (mg/kg/24h bw): >5000 (the lethal dose of synthetic amorphous silica for humans is estimated to be >15000mg/kg body weight)

Skin contact - LC50 rat/rabbit (mg/kg/24h bw): >2000.

Inhalation - LD50 rat (mg/l/4h): n.a. Synthetic amorphous silica has little harmful effect on the lungs and does not cause disease or toxic effects. However, exposure to dust may exacerbate certain existing conditions, such as asthma and bronchitis. The effects are greater in smokers.

(b) Skin corrosion/irritation: not classified. Dust may have a dehydrating effect.

(c) Serious eye damage/eye irritation: not classified. Dust may cause slight irritation due to mechanical effect.

(d) Respiratory or skin sensitisation: Not sensitising.

(e) Germ cell mutagenicity: Not mutagenic (no signs of geotoxicity in vivo or in vitro).

(f) Carcinogenicity: Not carcinogenic (group 3).

(g) Reproductive toxicity: Not toxic for reproduction.

(h) Specific target organ toxicity (STOT) single exposure: Not classified.

(i) Specific target organ toxicity (STOT) repeated exposure: Not classified. Oral NOAEL (rat): > 1000mg/kg body weight/day.

(j) Aspiration hazard: Not classified

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Based on available data, there are no substances that interfere with the endocrine system in accordance with Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 in concentrations >0.1.

SECTION 12. Ecological information**12.1. Toxicity**

Virtually inert with no known harmful effects on the environment

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

Not applicable (inorganic)

12.3. Bioaccumulative potential

Not bioaccumulative

12.4. Mobility in soil

Minimally soluble, no mobility is expected

12.5. Results of PBT and vPvB assessment

Based on available data, there are no PBT or vPvB substances according to Regulation (EC) 1907/2006, Annex XIII

12.6. Endocrine disrupting properties

Does not contain substances considered to have endocrine disruption in concentrations >0.1% in accordance with Regulations (EU) 2017/2100 and 2018/605

12.7. Other adverse effects

Not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

The product does not normally cause problems in wastewater treatment plants because it settles to the bottom with sludge. The product is not classified as hazardous waste. Dispose of according to local and national regulations.

SECTION 14. Transport information**14.1. UN number or ID number**

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Restrictions relating to the product or the substances contained (Annex XVII of EC Regulation 1907/2006): not applicable

Substances in the Candidate List (art. 59 of EC Regulation 1907/2006): the product does not contain SVHC in a percentage = 0.1%.

Seveso Class III (Dir. 2012/18/EU): not applicable.

Regulation (EU) 649/2012 (import and export of chemical substances): not applicable.

Regulation (EU) 1169/2011: see point 2.2.

Regulation (EU) 1308/2013; see point 2.2.

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information**16.1. Other information**

Points modified compared to previous release: 1.1. Product identifier, 2.2. Label elements, 2.3. Other hazards, 4.1. Description of first aid measures, 4.2. Most important symptoms and effects, both acute and delayed, 4.3. Indication of any immediate medical attention and special treatment needed, 5.1. Extinguishing media, 5.2. Special hazards arising from the substance or mixture, 6.1. Personal precautions, protective equipment and emergency procedures, 6.3. Methods and material for containment and cleaning up, 7.1. Precautions for safe handling, 7.3. Specific end use(s), 8.1. Control parameters, 8.2. Exposure controls, 9.2. Other information, 10.2. Chemical stability, 10.4. Conditions to avoid, 10.5. Incompatible materials, 10.6. Hazardous decomposition products, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 11.2. Information on other hazards, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 13.1. Waste treatment methods, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

No hazard to report. Classification procedure: similar mixture

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate

training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimat

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure

STOT (SE): Single Exposure

STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:

<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

- SDS raw material supplier

- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

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*** this tab annuls and replaces any previous edition. (IIXX)



SAFETY DATA SHEET

SILIGEL

Issued on 11/20/2025 - Rel. # 6 on 11/20/2025

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In conformity to Regulation (EU) 2020/878

Changes to the previous edition: documentation update of supplier data.
