



Safety Data Sheet

according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006

Silicagel Trockenperlen Orange 1-3 mm

Revision date: 25.01.2024

Product code: 100873

Page 1 of 9

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Silicagel Trockenperlen Orange 1-3 mm

Further trade names

SILICA

Substance name: amorphous silica
REACH Registration Number: 01-2119379499-16-XXXX
CAS No: 7631-86-9
EC No: 231-545-4

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

Use of the substance/mixture

Pharmaceutical production

1.3. Details of the supplier of the safety data sheet

Company name: VMP Chemiekontor GmbH
Street: Industriestr. 16
Place: D-53721 Siegburg
Telephone: 02241 / 26566-0
E-mail: vmp@vmp-chemiekontor.de
Contact person: QM-Abteilung
Internet: www.vmp-chemiekontor.de

Telefax: 02241 / 26566-99

1.4. Emergency telephone number:

02241 / 26566-0
Only available during office hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

2.3. Other hazards

This substance/mixture does not contain any components, at concentrations of 0.1% or higher, that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterization

SILICA

Sum formula: O₂Si (Hill)
Molecular weight: 60,09



Safety Data Sheet

according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006

Silicagel Trockenperlen Orange 1-3 mm

Revision date: 25.01.2024

Product code: 100873

Page 2 of 9

Relevant ingredients

| CAS No | Chemical name | Quantity |
|-----------|---|----------|
| | EC No | |
| | Index No | |
| | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | |
| 7631-86-9 | amorphous silica | 95-100 % |
| | 231-545-4 | |
| | 01-2119379499-16-XXXX | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-----------|-----------|---|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 7631-86-9 | 231-545-4 | amorphous silica | 95-100 % |
| | | inhalation: LC50 = < 2,19 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses.

After ingestion

Rinse mouth immediately and drink 1 glass of water. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

The most important known symptoms and effects are described on the label (see section 2.2) and/or in chapter 11.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.
Suitable extinguishing media: Carbon dioxide (CO₂). Water spray jet alcohol-resistant foam. Water spray jet

Unsuitable extinguishing media

There are no extinguishing agent restrictions for this substance/mixture.

5.2. Special hazards arising from the substance or mixture

Non-flammable. Formation of hazardous vapours possible due to ambient fire.



Safety Data Sheet

according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006

Silicagel Trockenperlen Orange 1-3 mm

Revision date: 25.01.2024

Product code: 100873

Page 3 of 9

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Suppress gases/vapours/mists with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not breathe dust. Provide adequate ventilation.

6.2. Environmental precautions

No special measures are necessary.

6.3. Methods and material for containment and cleaning up

For cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

Other information

Avoid dust formation. Provide adequate ventilation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid dust formation. Provide adequate ventilation.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately. Do not breathe dust. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. None known

Hints on joint storage

Store separately from food.

Further information on storage conditions

Keep container tightly closed and dry.

7.3. Specific end use(s)

Pharmaceutical production

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.



Safety Data Sheet

according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006

Silicagel Trockenperlen Orange 1-3 mm

Revision date: 25.01.2024

Product code: 100873

Page 4 of 9

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection. Tight-fitting safety goggles.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Wear protective gloves.

Thickness of the glove material NBR (Nitrile rubber): > 0,11 mm

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Breakthrough time:

Skin protection

Use of protective clothing. Protective clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | | |
|---|--|---------------------------|
| Physical state: | solid | |
| Colour: | white | |
| Odour: | odourless | |
| Melting point/freezing point: | | not determined |
| Boiling point or initial boiling point and boiling range: | | 2230 °C |
| Flammability: | | not determined |
| Lower explosion limits: | | not determined |
| Upper explosion limits: | | not determined |
| Flash point: | | not applicable |
| Auto-ignition temperature: | | not determined |
| Decomposition temperature: | | not determined |
| pH-Value (at 25 °C): | | 3,7-4,7 |
| Viscosity / kinematic: | | not applicable |
| Water solubility: | The study does not need to be conducted because the substance is known to be insoluble in water. | |
| Solubility in other solvents | not determined | |
| Partition coefficient n-octanol/water: | | not determined |
| Vapour pressure: | | not determined |
| Density: | | not determined |
| Relative density (at 20 °C): | | 2,2 |
| Bulk density (at 20 °C): | | 200-800 kg/m ³ |
| Relative vapour density: | | not determined |
| Particle characteristics: | | not determined |

9.2. Other information

Information with regard to physical hazard classes



Safety Data Sheet

according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006

Silicagel Trockenperlen Orange 1-3 mm

Revision date: 25.01.2024

Product code: 100873

Page 5 of 9

Explosive properties

The product is not: Explosive.

Oxidizing properties

The product is not: oxidising.

Other safety characteristics

Evaporation rate:

No information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

No decomposition when used as intended.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Hydrogen halide, Sodium, Xenon hexafluoride.

10.4. Conditions to avoid

No information is available.

10.5. Incompatible materials

Strong acid

10.6. Hazardous decomposition products

In case of fire: see chapter 5

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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

The substance is classified as not hazardous according to Directive 67/548/EEC.

The usual precautionary measures when handling chemicals must be observed.

| CAS No | Chemical name | | | | |
|-----------|----------------------------|-------------------|---------|-----------------------------------|--|
| | Exposure route | Dose | Species | Source | Method |
| 7631-86-9 | amorphous silica | | | | |
| | oral | LD50 > 5000 mg/kg | Rat | Study report (1999) | OECD Guideline 401 |
| | dermal | LD50 > 2000 mg/kg | Rabbit | Review article or handbook (2006) | other: Guidelines of the Department of T |
| | inhalation (4 h) dust/mist | LC50 < 2,19 mg/l | Rat | Study report (1981) | 1 dose level, 4 h administration, 14 d p |

Irritation and corrosivity

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

Has degreasing effect on the skin.

Sensitising effects

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

None known

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

**Safety Data Sheet**according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006**Silicagel Trockenperlen Orange 1-3 mm**

Revision date: 25.01.2024

Product code: 100873

Page 6 of 9

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.

Eye irritation

Inhalation of dust may cause irritation of the respiratory system.

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

The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

Other information

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

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

The product is not: Ecotoxic.

| CAS No | Chemical name | | | | | | |
|-----------|--------------------------|------------------|-----------|---------|---|---|-----------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method | |
| 7631-86-9 | amorphous silica | | | | | | |
| | Acute fish toxicity | LC50 mg/l | > 5000 | 96 h | Pimephales promelas | REACH Registration Dossier | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l | > 173,1 | 72 h | Desmodesmus subspicatus | REACH Registration Dossier | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l | > 5000 | 48 h | Daphnia magna | Study report (1998) | OECD Guideline 202 |
| | Fish toxicity | NOEC mg/l | 86,03 | 30 d | Fish species | http://epa.gov/oppt/exposure/pubs/episui | other: QSAR |
| | Crustacea toxicity | NOEC | 68 mg/l | 21 d | Daphnia magna | REACH Registration Dossier | OECD Guideline 211 |
| | Acute bacteria toxicity | EC50 mg/l () | > 2500 | 3 h | activated sludge of a predominantly domestic sewage | REACH Registration Dossier | OECD Guideline 209 |

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|------------------|---------|
| 7631-86-9 | amorphous silica | 0,53 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-----------|------------------|-------|------------|---|
| 7631-86-9 | amorphous silica | 3,162 | QSAR model | http://epa.gov/oppt/ |



Safety Data Sheet

according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006

Silicagel Trockenperlen Orange 1-3 mm

Revision date: 25.01.2024

Product code: 100873

Page 7 of 9

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This substance/mixture does not contain any components, at concentrations of 0.1% or higher, that are classified as either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

The substance/mixture does not contain any components that exhibit endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation.

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Inland waterways transport (ADN)

| | |
|--|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Marine transport (IMDG)

| | |
|--|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|--|
| <u>14.1. UN number or ID number:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.2. UN proper shipping name:</u> | No dangerous good in sense of this transport regulation. |
| <u>14.3. Transport hazard class(es):</u> | No dangerous good in sense of this transport regulation. |
| <u>14.4. Packing group:</u> | No dangerous good in sense of this transport regulation. |

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of these transport regulations.

**Safety Data Sheet**according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006**Silicagel Trockenperlen Orange 1-3 mm**

Revision date: 25.01.2024

Product code: 100873

Page 8 of 9

14.7. Maritime transport in bulk according to IMO instruments

No data available

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

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

National regulatory information

Water hazard class (D): - - non-hazardous to water

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 4,5,6,10,11,12,14.



Safety Data Sheet

according to Regulation (EU) 2020/878, Annex II of the Reach
Regulation (EC) No 1907/2006

Silicagel Trockenperlen Orange 1-3 mm

Revision date: 25.01.2024

Product code: 100873

Page 9 of 9

Abbreviations and acronyms

CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
EC/EEC: European Community/European Economic Community
EU: European Union
CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
M-factor: Multiplying factor
ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
DGR: Dangerous Goods Regulations
ICAO: International Civil Aviation Organization
TI: Technical Instructions
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
SVHC: Substance of Very High Concern
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.