

Version: 1.3 Issue Date: 08.03.2019 Last revised date: 06.03.2020 Supersedes Date: 02.08.2019

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

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

1.1 Product identifier Product name:

AEROPERL® 300 Pharma

Chemical name:

Silicon dioxide, chemically prepared

Additional identification Chemical name:

Chemical formula: INDEX No. CAS-No. EC No. REACH Registration No. Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) SiO2 -112945-52-5 231-545-4 01-2119379499-16-0000 (TPR)

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: Raw material for pharmaceuticals

Uses advised against:

1.3 Details of the supplier of the safety data sheet

Company Name	: Evonik Operations GmbH Rellinghauser Str. 1-11 45128 Essen Germany
Telephone	· ±40 6181 50 4787

Telephone	: +49 6181 59 4787
E-mail	: sds-hu@evonik.com

1.4 Emergency telephone number:

24-Hour Health : +49 7623 919191 Emergency

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Not classified

2.2 Label Elements Not applicable

2.3 Other hazards Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

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SECTION 3: Composition/information on ingredients

Chemical name:

Silicon dioxide, chemically prepared

3.1 Substances

Chemical name INDEX No.:	Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)
CAS-No.:	112945-52-5
EC No.: REACH Registration No.:	231-545-4 01-2119379499-16-0000 (TPR)

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Silicon dioxide, chemically prepared (CAS 112945-52-5		112945-52-5	231-545-4	01- 2119379499- 16 (covered by CAS	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC

SECTION 4: First aid measures

4.1 Description of first aid measu Inhalation:	ures In case product dust is released: Possible discomfort: cough, sneezing Move victims into fresh air.
Skin Contact:	Wash off with plenty of water and soap.
Eye contact:	Possible discomfort is due to foreign substance effect. Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort: Consult an ophthalmologist.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.
4.2 Most important symptoms and effects, both acute and delayed:	None known.
4.3 Indication of any immediate Hazards:	medical attention and special treatment needed None known.
Treatment:	No hazards which require special first aid measures.
SECTION 5: Firefighting measure	S
5.1 Extinguishing media Suitable extinguishing media:	Water spray, foam, CO2, dry powder.
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Unsuitable extinguishing media:	Do not use full-force water jet in order to avoid dispersal and spread of the fire.	
5.2 Special hazards arising from the substance or mixture:	None known.	
5.3 Advice for firefighters Special fire fighting procedures:	Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.	
SECTION 6: Accidental release m	easures	
6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.	
6.1.1 For non-emergency personnel:	No data available.	
6.1.2 For emergency responders:	No data available.	
6.2 Environmental Precautions:	Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.	
6.3 Methods and material for containment and cleaning up:	Sweep up or vacuum up spillage and collect in suitable container for disposal.	
6.4 Reference to other sections:	Wear personal protective equipment; see section 8. Disposal considerations; see section 13.	
SECTION 7: Handling and storage):	
7.1 Precautions for safe handling:	Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If necessary: Local ventilation.	
7.2 Conditions for safe storage,	Keep in a dry place. Take precautionary measures against static	

7.3 Specific end use(s): No further information available Applications; see Section 1.

discharges.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

including any incompatibilities:

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) - Inhalable	TWA	6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)



dust.			
Silicon dioxide, chemically prepared (CAS 112945-52-5	TWA	2.4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
resp. 7631-86-9) - Respirable			
dust.			

8.2 Exposure controls Appropriate Engineering Controls:	No data available.
Individual protection measure	es, such as personal protective equipment
Eye/face protection:	Safety glasses with side-shields If dust occurs: basket-shaped glasses
Hand Protection:	Additional Information: Wear protective gloves made of the following materials: material, rubber, leather. Additional Information: The material thickness and rupture time data do not apply to non-solute solids / dusts.
Skin and Body Protection:	No special protective equipment required.
Respiratory Protection:	No special protective equipment required. If dust occurs: Dust mask with P2 particle filter
Hygiene measures:	When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before reuse.
Environmental Controls:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	solid
Form:	Powder
Color:	White
Odor:	odourless
Odor Threshold:	Not applicable
pH:	3.5 - 5.5 (40 g/l, 20 °C) Suspension
Melting Point:	Approximate 1,700 °C
Boiling Point:	Not determined.
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability (solid, gas):	Not applicable
Flammability Limit - Upper (%):	Not applicable
Flammability Limit - Lower (%):	Not applicable
Vapor pressure:	Not applicable
Vapor density (air=1):	No data available.
Density:	Approximate 2.2 g/cm3 (20 °C)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	> 1 mg/l



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Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable
Self Ignition Temperature:	Not applicable
Decomposition Temperature:	> 2,000 °C
Kinematic viscosity:	No data available.
Dynamic viscosity:	Not applicable (solid)
9.2 Other information	
Explosive properties:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
Minimum ignition energy:	Not applicable
Minimum ignition temperature:	Not applicable

10.1 Reactivity:	No dangerous reaction known under conditions of normal use.
10.2 Chemical Stability:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:	None if processed as per stipulations
10.4 Conditions to avoid:	No dangerous reaction known under conditions of normal use.
10.5 Incompatible Materials:	None known.
10.6 Hazardous Decomposition Products:	No hazardous decomposition products known.

SECTION 11: Toxicological information

General information:	Silicosis or other product specific illnesses of the respiratory tract were no	
	observed in association with the product.	

Information on likely routes Inhalation:	of exposure No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Ingestion: No data available.

11.1 Information on toxicological effects

Acute toxicity

Oral	LD0 (Rat): > 3,300 mg/kg No deaths occurred.
Product:	LD 50 (Rat): > 5,000 mg/kg (OECD 401) comparable product
Components: Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	LD 50 (Rat): > 5,000 mg/kg



Dermal Product: Components: Silicon diox chemically (CAS 1129 resp. 7631-	kide, prepared 45-52-5	LD 50 (Rabbit) > 5,000 mg/kg comparable product LD 50 (Rabbit): > 5,000 mg/kg
Inhalation Product:		LC0 (Rat, 4 h) 0.139 mg/l (analogous OECD method) (maximum concentration attainable in experiments), No deaths occurred.
Components: Silicon dioxid chemically pr (CAS 112945 7631-86-9)	e, epared	LC0 (Rat, 4 h)0.139 mg/l Vapour No data available., Dusts, mists and fumes
Repeated dose Product: Components: Silicon dioxid chemically pr (CAS 112945 7631-86-9)	e, epared	No data available. No data available.
Skin Corrosion Product:	/Irritation:	Not irritating analogous OECD method (Rabbit): Not irritating comparable product
Components: Silicon diox chemically (CAS 1129 resp. 7631-	tide, prepared 45-52-5	analogous OECD method (Rabbit): Not irritating
Serious Eye Da Irritation: Product: Components: Silicon diox chemically (CAS 1129 resp. 7631-	ide, prepared 45-52-5	Not irritating analogous OECD method (Rabbit): Not irritating comparable product analogous OECD method (Rabbit): Not irritating
Respiratory or Sensitization: Product:	Skin	Not known.
Components: Silicon diox chemically (CAS 1129 resp. 7631-	tide, prepared 45-52-5	No data available.
Germ Cell Muta	genicity	
In vitro Product:		no evidence of mutagenic effects literature
Components:		
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Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	No data available.		
In vivo Product:	no evidence of mutagenic effects literature		
Components: Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	No data available.		
Carcinogenicity Product:	No data available.		
Components: Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	No evidence that cancer may be caused.		
Reproductive toxicity Product:	No data available.		
Components: Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	no evidence of reproductiontoxic properties		
Specific Target Organ Toxic Product:	ity - Single Exposure No data available.		
Components: Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	No data available.		
Specific Target Organ Toxicity - Repeated Exposure Product: No data available.			
Components: Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	No data available.		
Aspiration Hazard Product:	Not classified		
Components:			



Silicon dioxide, Not applicable chemically prepared (CAS 112945-52-5 resp. 7631-86-9)

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

SECTION 12: Ecological information

Other adverse effects:

12.1 Toxicity

Acute toxicity

Fish			
Product:		LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l (OECD 203) The report toxic effects relate to the nominal concentration.	ed
Components Silicon dioxide, chemically prep (CAS 112945-5 7631-86-9)	bared	LC 50 (Brachydanio rerio, 96 h): > 10,000 mg/l (OECD 203) The reporter toxic effects relate to the nominal concentration. literature	d
Aquatic Invertebr Product:	ates	EC 50 (Daphnia magna, 24 h): > 1,000 mg/l (OECD 202) The reported to effects relate to the nominal concentration.	oxic
Components Silicon dioxide, chemically prep (CAS 112945-5 7631-86-9)	bared	EC 50 (Daphnia magna, 24 h): > 1,000 mg/l (OECD 202) The reported to effects relate to the nominal concentration. literature	oxic
Toxicity to Aquat Product:	ic Plants	No data available.	
Components Silicon dioxide, chemically prep (CAS 112945-5 7631-86-9)	bared	No data available.	
Toxicity to micro Product:	organisms	No data available.	
Components Silicon dioxide, chemically prep (CAS 112945-5 7631-86-9)	bared	No data available.	
Chronic Toxicity			
Fish Product:		No data available.	
Components Silicon dioxide, chemically prep		No data available.	
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(CAS 112945-52-5 resp.
7631-86-9)

Aquatic Invertebrates Product:	No data available.
Components Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Components Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	No data available.
12.2 Persistence and Degradability	ty
Biodegradation Product:	The methods for determining biodegradability are not applicable to inorganic substances.
BOD/COD Ratio Product	No data available.
Components Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	No data available.
12.3 Bioaccumulative potential Product:	Not to be expected.
12.4 Mobility in soil:	No remarkable mobility in soil is to be expected.
12.5 Posults of PRT and vPvB	Not a PRT $_{\rm V}$ PVR substance as per the criteria of the PEACH Pergulation

 12.5 Results of PBT and vPvB assessment:
 Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

 Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)
 Non-classified vPvB substance Non-classified PBT substance

12.6 Other adverse effects: No data available.

SECTION 13: Dispo	sal considerations
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13.1 Waste treatment methods

General information: No data available.



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Product name: AEROPERL® 300 Pharma

Disposal methods:	No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.		
Contaminated Packaging:	Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations.		
SECTION 14: Transport information			
14.1 UN number			
Not regulated as a dangerous of	boox		
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- **14.2 UN proper shipping name** Not regulated as a dangerous good
- **14.3 Transport hazard class(es)** Not regulated as a dangerous good
- 14.4 Packing group Not regulated as a dangerous good
- 14.5 Environmental hazards

Not regulated as a dangerous good

- 14.6 Special precautions for user Not applicable
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment: No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

International regulations

Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable



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Kyoto protocol

Not applicable

SECTION 16: Other information

Abbreviations and acronyms:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; AGW - Occupational exposure limit; ASTM - American Society for Testing and Materials; AwSV - Ordinance on facilities for handling substances that are hazardous to water: BSB - Biochemical oxygen demand: c.c. - closed cup: CAS - Chemical Abstract Services: CESIO - European Committee of Organic Surfactants and their Intermediates; CSB - Chemical oxygen demand; DMEL - Derived minimum effect level; DNEL - Derived no effect level; EbC50 - median concentration in terms of reduction of growth; EC -Effective concentration; EINECS - European Inventory of Existing Commercial Chemical Substances; EN - European norm; ErC50 - median concentration in terms of reduction of growth rate: GGVSEB - German ordinance for road, rail and inland waterway transportation of dangerous goods; GGVSee - German ordinance for sea transportation of dangerous goods; GLP - Good Laboratory Practice; GMO - Genetic Modified Organism; IATA - International Air Transport Association: ICAO - International Civil Aviation Organization: IMDG - International Maritime Dangerous Goods; ISO - International Organization For Standardization; LD/LC lethal dosis/concentration; LOAEL - Lowest observed adverse effect level; LOEL - Lowest observed effect level; M-Factor - multiplying factor; NOAEL - No observed adverse effect level; NOEC - no observed effect concentration; NOEL - no observed effect level; o.c. - open cup; OECD - Organisation for Economic Cooperation and Development; OEL - Occupational Exposure Limit; PBT - Persistent, bioaccumulative, toxic; PNEC - Predicted no effect concentration; REACH - REACH registration; RID - Convention concerning International Carriage by Rail; SVHC - Substances of Very High Concern; TA - Technical Instructions; TRGS - Technical Rules for Hazardous Substances; **vPvB** - very persistent, very bioaccumulative; WGK - Water Hazard Class

Key literature references and No data available. sources for data:

Wording of the H-statements	in section 2 and 3
Training information:	No data available.

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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