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Evonik Operations GmbH - D-63403 Hanau

Inspection Certificate 3.1 according to EN 10204

Date 27.07.2023

Delivery Number / Item 3009687990 / 900010

Product

AEROSIL® 200 VV Pharma

20 x 20 KG / 44.00 lbs Paper Bag - / CP3

Wood pallet

Material

99034601

Your material no

144163-BGPA000020KG0

Quantity

400 KG = 20 BAG

Batch

113052414

Production date

May 24, 2023

Expiration date

May 23, 2025

Delivery date

Jul 27, 2023

Spec. No.

K01, Ver. 12.07.2018

Sign of Car / Wagon

CA-YY-82X5

Sign of Trailer

DN-335TC

Delivery date = Estimated time of dispatch / departure Property	Test Method	Unit	Value	Target	Min	Max
Specific surface area	ISO 9277, modified	m²/g	193	200	175	225
Identification	tested acc. to Ph.Eur.		Conforms	pass		
Assay (SiO2 content)	tested acc. to Ph.Eur.	%	100,1		99.0	100,5
pH value	tested acc. to Ph.Eur.		4,9		3,5	5,5
Chlorides <=250ppm	tested acc. to Ph.Eur.		Conforms	pass		
Loss on ignition	tested acc. to Ph.Eur.	%	0,4	200000000000000000000000000000000000000		5,0
As content <=8ppm	tested acc. to USP/NF		Conforms	pass		
Loss on drying	tested acc. to USP/NF	%	0,2			2,5
Loss on ignition	tested acc. to USP/NF	%	0,3			2,0
Identification, A and B	tested acc. to USP/NF		Conforms	pass		

Evonik Operations GmbH Reilinghauser Str. 1-11 45128 Essen Germany

Chairman of the supervisory board: Dr. Harald Schwager Board of Directors: Dr. Joachim Dahm, Johann-Caspar Gammelin, Lauren Kjeldsen, Dr. Claudine Mollenkopf, Alexandra Schwarz.

Registered office: Essen Register court: Essen local court Commercial registry: B 20227 Tax-Id.: 112/5708/0516

Tel: +49 201 177-01 Fax: +49 201 177-3475 www.evonik.com



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Property	Test Method	Unit	Value	Target	Min	Max
pH value	tested acc. to USP/NF		4,7		3,5	5,5
Assay (SiO2 content)	tested acc. to USP/NF	%	100,0		99,0	100,5

#### AEROSIL® 200 VV Pharma:

Colloidal Silicon Dioxide tested according to Ph.Eur. and USP/NF (current Version)

Manufactured and packaged in a dedicated closed production system according to GMP guidelines established for bulk pharmaceutical excipients by the International Pharmaceutical Excipients Council (IPEC/GMP).

White, fine, amorphous powder.

#### Elemental Impurities:

Elemental Impurities are not intentionally added to the production process.

The elemental impurities of the ICH Q3D are tested on a regular basis acc. to USP 233 and Ph. Eur. 5.20.

#### Residual solvents:

No organic solvents are used in the manufacture of above mentioned product. For this reason, constitutionally no residual solvents as cited in recent versions of the European Pharmacopoeia, (class 1, 2 and 3 or other solvents, USP chapter 467), 2008 and amendments are present in concentration about the control limits quoted in USP. For above mentioned product class 1 residual solvents are tested on a regular basis according to USP/NF: Carbon tetrachloride, 1,2 Dichlorethane, 1,1 Dichlorethane, 1,1,1 Trichlorethane and Benzene.

#### TSE/BSE and materials of plant origin:

No raw materials of animal or plant origin (as mentioned in EMEA/410/01, current version) are used in the production process of AEROSIL® Pharma products. AEROSIL® Pharma products have not been in contact with and constitutionally do not include any material of animal or plant origin.

We generally do not use any material of animal or plant origin in our production facilities. AEROSIL® Pharma products are not contaminated with material of animal or plant origin when they leave our production and warehouses.

This product is manufactured in Site Rheinfelden, Untere Kanalstrasse 3, 79618 Rheinfelden, Deutschland.



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Dr. Martina Altemöller Inspector Rheinfelden site Untere Kanalstraße 3, 79618 Rheinfelden, Germany +49 7623 917252 RHE-QM-AE@evonik.com

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\*\*\* End \*\*\*



# **Product Safety Information**

## **Evonik Resource Efficiency GmbH**

Version 14 | February 2018

Product Name: AEROSIL® 200 VV Pharma
Chemical Name: Silicon dioxide, chemically prepared

CAS-No.: 112945-52-5, 7631-86-9

Customs Tariff Number: 281122

## How to find specific information in this document

This document is an Adobe standard document. Please press the buttons "Strg" and "F" on your keyboard to open the search function, type the search item in the box and press Enter.

Regulations EU and Germany (FRG)					
Domain	Legal Record	Registration	Remarks		
European Pharmacopoeia, currently valid version	Monograph "Silica, colloidal anhydrous"		Compliant		
Food additive (EU)	(EU) 231/2012 specifications for food additives regarding (EG) 1333/2008 Annex II and III	As E 551	Purity criteria for E 551 are met, product is not produced according to HACCP.		
Animal nutrition (EU)	European Union Register of Feed Additives (current version)	As E 551 b (Colloidal silica)	Purity criteria are met. Product is not produced according to FAMI-QS.		
Cosmetics (EU)	Regulation (EC) 1223/2009	INCI CosIng: Silica	No negative-listing, positive listing not necessary		

Regulations China					
Domain	Legal Record	Registration	Remarks		
Animal Nutrition	Approved feed additive (2013)	As anti-caking agent	Registration is needed for 1st import		
(China)					
Cosmetics	catalogue of Cosmetics Ingredients		INCI-Name CosIng: Silica		
(China)	used in China (IECIC) 2015				

Regulations Japan				
Domain	Legal Record	Registration	Remarks	
Japanese Pharmacopoeia,	Monograph "Silicic Anhydride" under		Purity criteria are met, however,	
currently valid version	Japanese Standards of Quasi-drug		we can not inspect according to	
	Ingredients		the monograph.	

Regulations USA				
Domain	Legal Record	Registration	Remarks	
United States Pharmacopoeia / National	Monograph "Colloidal Silicon Dioxide""		Compliant	
Formulary, current valid version				
Cosmetics (USA)	PCPC - Monograph ID No. 2793	INCI PCPC: Silica		

## Heavy metals concerning the use as food additive / animal nutrition

Cadmium (Cd)	Arsenic (As)	Mercury (Hg)	Lead (Pb)
< 1 ppm	< 1 ppm	< 1 ppm	< 1 ppm

(The analysis for above mentioned metals is not part of our standard quality and production analyses. The limits given represent mean values from arbitrarily selected samples, but do not represent any specifications.)



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# Metal Reagent Residues / Elemental Impurities – ICH Q3D Guideline for elemental Impurities / EMA/CHMP/ICH/353369/2013

Hereby we confirm that above mentioned product meets the maximum impurity levels of the elements mentioned in the ICH Q3D elemental impurity guideline given in the table below:

	Limit values		
Cadmium (Cd)	< 0,5 µg/g		
Lead (Pb)	< 0,5 µg/g		
Arsenic (As)	< 1,5 μg/g		
Mercury (Hg)	< 3 μg/g		
Cobald (Co)	< 5 μg/g		
Vanadium	< 10 μg/g		
Nickel (Ni)	< 20 μg/g		
Thallium (Tl)	< 0,8 μg/g		
Gold (Au)	< 10 μg/g		
Palladium	< 10 μg/g		
Iridium	< 10 μg/g		
Osmium (OS)	< 10 μg/g		
Rhodium (Rh)	< 10 μg/g		
Ruthenium (Ru)	< 10 μg/g		
Selenium (Se)	< 15 μg/g		
Silver (Ag)	< 15 μg/g		
Platinium (Pt)	< 10 μg/g		
Lithium (Li)	< 55 μg/g		
Antimony (Sb)	< 120 μg/g		
Barium (Ba)	< 140 μg/g		
Molybdenium (Mo)	< 300 μg/g		
Chopper (Cu)	< 300 μg/g		
Tin (Sn)	< 600 μg/g		
Chromium (Cr)	< 1100 µg/g		

#### **Registration Status**

Above mentioned product is registered in the following inventories:

	the product is registered in the following inventories.		
Australia	AICS (Australian Inventory of Chemical Substances)	registered	
Canada	Canada DSL (Domestic Substance List)		
China	IECSC (Inventory of Existing Chemical Substances)	registered	
Europe	EC (European Community)	231-545-4	
Europe	REACH (Registration, Evaluation, Authorisation and Restrictions of Chemicals)	registered	
Europe	C&L inventory (classification and labelling inventory)	notified	
Japan	ENCS (Existing and New Chemical Substances)	registered	
Korea	KECI (Korea Existing Chemicals Inventory)	registered	
New Zealand	NZIoC (New Zealand Inventory of Chemicals)	registered	
Philippines	PICCS (Philippine Inventory of Chemicals and Chemical Substances)	registered	
USA	TSCA (Toxic Substances Control Act)	registered	
Taiwan	CSNN (Chemical Substances Nomination and Notification)	registered	

# **Amorphous structure**

Synthetic amorphous silica manufactured by flame hydrolysis or by precipitation in an aqueous solution is characterized by its amorphous structure. The determination method used on typical samples is enrichment of the crystalline fraction followed by X-ray Diffraction. The detection limit of this method is less than 0.01% by weight. The determination of arbitrarily selected samples shows no crystalline fraction above the detection limit. Under consideration of this result above mentioned silica are considered to be amorphous.



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#### Pharmacopoeia

The above mentioned product fulfils the analytical requirements of the currently valid versions of the European Pharmacopoeia (Ph. Eur.), United States Pharmacopoeia (USP / NF) and Japanese Pharmacopeia (JP) and is tested and certified according to pharmacopoeia methods. In addition, this product is produced according to International Pharmaceutical Excipients Council (IPEC) GMP guidelines and thus fulfils USP Chapter <1078> "Good Manufacturing Practices for Bulk Pharmaceutical Excipients".

#### Japanese Pharmacopoeia

Because the above mentioned product does not fulfill the required JP "Volume Test" this product is not tested according to the JP. It is, however, in line with the other requirements of the JP.

#### IPEC-GMP

The above mentioned product is manufactured and packaged in a closed production system according to GMP guidelines established for bulk pharmaceutical excipients by the International Pharmaceutical Excipients Council (IPEC-GMP).

## Acceptable daily intake (ADI)

- Joint FAO/WHO Expert Committee on Food Additives, Report TRS 733-JECFA 29/24 silicon dioxide "silica":
   Acceptable daily intake (ADI) not specified.
- To the best of our knowledge, an acceptable Daily Intake (ADI) for colloidal silicon dioxide (hydrophilic) has not been set by the FDA. The highest amount of colloidal silicon dioxide (hydrophilic) approved so far per dosage form can be found in the FDA's Inactive Ingredients Guide Database:
   http://www.fda.gov/Drugs/InformationOnDrugs/ucm113978.htm
   http://www.accessdata.fda.gov/scripts/cder/iig/index.cfm

#### Information on REACH / Substances of Very High Concern (SVHC)

According to regulation (EU) 1907/2006 (REACH) substances of very high concern (SVHC) must be mentioned in the safety data sheet (SDS) when the content is above the threshold limit of 0.1% w/w. Please visit the current safety data sheet for more information regarding this issue.

Please use the following e-mail address to order the current SDS: sds-hu@evonik.com

#### Information on REACH / Annex XVII (formerly directive 76/769/EEC)

The above mentioned product is not a substance and does not contain any substances that are subject to authorization and/or restriction according to Annex XIV or Annex XVII (formerly Directive 76/769/EEC) of the REACH regulation, respectively. However, testing of these substances is not part of our standard routine quality control and production testing procedures.

## Origin - TSE/ BSE and Materials of animal or plant origin

The above mentioned product is chemically produced. In the production process we do not use any raw material of animal or plant origin (as mentioned in EMEA/410/01, current version). In our manufacturing facilities we generally do not use any material of animal or plant origin. Our product is not contaminated with any animal—or plant—based material when it leaves the manufacturing sites and warehouses of the manufacturing company.

## Origin - Materials of human origin

The above mentioned product is chemically produced. In the production process we do not use or intentionally add any of the substances mentioned below:

Human embryo, human embryonic stem cell, material sourced from human embryo, ingredients of human blood source.

Since testing of these substances is not part of our standard routine quality control and production testing procedures, we therefore cannot warrant or guaranty the absence of these substances in this product.

## GMO

In the production process of the above mentioned product we do not use any Genetically Modified Organisms (GMO). The above mentioned product is no GMO, it does not contain any GMO and has not been in contact with



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any GMO. Therefore Regulations (EC) No 1829/2003 (as amended) and No 1830/2003 (as amended) are not applicable.

#### Allergens

The above mentioned product is a pure substance. During the production process we do not intentionally use or add any ingredients usually mentioned to be allergens

- according to EU-Directive 2000/13/EC and amendments
- according regulation (EU) No 1169/2011 Food information to consumers
- according the Brazilian resolution RDC No. 26 requirements for labeling of main foods that cause food allergies
- according to the ALBA-list.
  - Cereals containing gluten (e.g. Wheat, Rye, Barley, Oat, Spelt, Kamut), Maize, Crustaceans, Molluscs, Egg, Fish, Milk, Lactose, Ox, Pig, Hen/Chicken, Peanuts, Soybeans, Almonds, Hazelnut, Walnut, Cashew nut, Pecan nut, Brazil nut, Pistachio, Macadamia nut, Queensland nut, Celery, Mustard, Sesame, Lupines, Leguminous plants, Cinnamon, Vanilla, Coriander, Cocoa, Sulphur dioxide, Sulphites. Yeast, Glutamate (E620 E625), Benzoic acid (E210 E219) Azo-colorants/pigments.
- Pine, Chestnuts
- Other additives, preservatives, flavors/fragrances or natural latex.

Since testing of these substances is not part of our standard routine quality control and production testing procedures, we therefore cannot warrant or guaranty the absence of these substances in this product.

#### Suitability

The above mentioned product is chemically produced. During the production process we do not intentionally use or add gluten, lactose or any other materials of animal or plant origin. Any testing for these materials are not part of our routine quality and production processes and therefore, we do not guarantee their absence in our product specifications.

We can therefore confirm that this product is suitable for Vegetarians, Ovo-lacto Vegetarians, Vegans, Coeliacs and people with lactose intolerance.

## **Nutritional** value

The above mentioned product is chemically produced. It is a completely inorganic material. During the production process we do not intentionally use or add any carbohydrates, fats or proteins. Above mentioned product has no nutritional value. Since testing of these substances is not part of our standard routine quality control and production testing procedures, we therefore cannot warrant or guaranty the absence of these substances in this product.

# **Kosher-Certificates**

The above mentioned product delivered from the below mentioned plant/s

Germany: Rheinfelden

is in line with Kosher requirements. On special request the according certificates can be made available.

#### Halal-Certificates

The above mentioned product delivered from the below mentioned plant/s

• Germany: Rheinfelden

is in line with Halal requirements. On special request the according certificates can be made available.

#### Microbiology

Above mentioned product is manufactured on an industrial scale by hydrolysis of chlorosilanes in an oxyhydrogen flame and is therefore sterile during the production process. Although carrying, silage and packaging is not performed under sterile conditions, a microbiological contamination is highly improbable.



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#### **Aflatoxins**

The above mentioned product is chemically produced. During the production process there is practically no risk of contamination. Therefore to the best of our knowledge Aflatoxins are not contained in this product.

Analysis on Aflatoxins is not part of our standard quality and production analyses. Therefore, we cannot warrant or guarantee the absence or level of these substances to any specific limit or threshold value.

#### Irradiation

The above mentioned product is chemically produced. During the production process we do not intentionally use or add any irradiated or radioactive raw-materials. The product is also not irradiated. Since testing on irradiation is not part of our standard routine quality control and production testing procedures, we therefore cannot warrant or guaranty the absence on irradiation in this product.

### **Animal Testing**

Above mentioned product was tested on animals only in connection with requirements of the current Chemical Laws (i.e. EU–Regulation 793/93/EEC). Animal tests on our product have never been performed because of cosmetic questions.

## Cosmetics Regulation (EC) 1223/2009

- The above mentioned product is in line with regulation (EC) 1223/2009 and is
  - o not listed in Annex II "prohibited substances"
  - o not listed in Annex III "restricted substances"
  - o **no** colorant, preservative or UV-filter
- Allergens

Above mentioned product is chemically produced. During the production process we do not add or use intentionally any of the substances usually mentioned to be allergens. This includes also the substances with the hint "can cause an allergic reaction", in the regulation mentioned above.

## **NATRUE (Natural and Organic Cosmetics)**

Above mentioned product is listed by NATRUE (http://www.natrue.org) in – Annex 2b: Nature-identical inorganic pigments and minerals approved in natural cosmetics

(http://www.natrue.org/fileadmin/natrue/downloads/Annexes\_V2\_2.xls) with the INCI-Name Silica and may therefore use in NATRUE conform cosmetic formulations without a NATRUE raw material certification.

#### C.M.R. classified substances

On the basis of our data, above mentioned product is classified as a non-hazardous substance as defined by CLP directive 1272/2008/EC. It is not carcinogenic, mutagenic or toxic for reproduction. Above mentioned product is a pure substance. During the production process of above mentioned product we do not intentionally use or add any C.M.R. classified substances mentioned in the EU-Directives 2003/34/EC and 2003/36/EC.

The analysis on above mentioned substances is not part of our standard quality and production analyses. Therefore, we cannot warrant or guarantee the absence or level of these substances to any specific limit or threshold value.

## Organic solvents / Residual solvents

No organic solvents are used or intentionally added in the manufacture of above mentioned product. To the best of our knowledge above mentioned product does not contain any residual solvents as cited in recent versions of the European Pharmacopoeia, and United States Pharmacopoeia, (class 1, 2, and 3 or other solvents, USP chapter <467>), 2008 and amendments are present in concentrations above the control limits quoted in USP. For above mentioned product Class 1 residual solvents are tested on a regular basis according to USP/NF: Carbon tetrachloride, 1.2 Dichloroethane, 1.1 Dichloroethene, 1.1.1 Trichloroethane, Benzene. The above mentioned product is also in line with ICH/3QC (CPMP/ICH/283/95), Guideline for Residual Solvents.

#### Residues of metal catalysts or metal reagents

In the production process of above mentioned product we do not intentionally use or add any catalysts or metal reagents. To the best of our knowledge above mentioned product does not contain any residues of metal catalysts or metal reagents, mentioned in the Guideline CPMP/SWP/QWP/4446/2000. The analysis on above mentioned



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substances is not part of our standard quality and production analyses. Therefore, we cannot warrant or guarantee the absence or level of these substances to any specific limit or threshold value. Specific limit or threshold value.

#### "Substance declaration"

During the production process of the above mentioned product we do not intentionally use or add any of the following substances:

- Aromatic amines according to EU Directive 2002/61/EC
- Volatile aromatic hydrocarbons, alkylphenol-ethoxylates, glycol ethers, isothiazolinone compounds, formaldehyde or formaldehyde donators as mentioned in Commission Directive 2002/739/EC
- 2,2-bis(4-hydroxyphenyl)propane, bis(2,3-epoxypropyl) ether (BADGE), bis(hydroxyphenyl)methane, bis(2,3-epoxypropyl)ethers (BFDGE) and novolac glycidyl ethers (NOGE) as mentioned in regulation (EC) No 1895/2005
- Substances mentioned in the "VDA-List of Substances to be Declared" version 2005, in the IMDS International list of reportable substances (ILRS-list), in 2005 replaced by GADSL, version August 2015 or its subsequent revision, respectively
- Polychlorinated biphenyls (PCB), polychlorinated naphthalenes (PCN), polychlorinated terphenyls (PCT), pentachlorophenol (PCP) and PCP-salts, chlorinated paraffins (CP), Mirex (perchlorodecone), polycyclic aromatic hydrocarbons (PAHs), polybrominated biphenyls (PBB), polybrominated terphenyls (PBT), polybrominated diphenylethers (PBDE), tetrabromobisphenol-A-bis-(2,3-dibromopropylether) (TBBP-A-bis), other halogens, organic tin compounds, asbestos, azo dye, polyvinyl chloride (PVC) and PVC-blends, latex, ozone depleting substances, phthalates, cyanides, radioactive materials, pesticides, biocides
- 1,4-Dioxan
- Substances listed in Sony's Technical Standards "SS-00259" 15th edition 2017.
- Perfluorooctane sulfonates (PFOS) and Perfluorooctanoic acid (PFOA) as described in EC-directive 2006/122/EC
- Isocyanate
- DEHP (diethylhexyl phthalate) and DINP (diisononyl phthalate) or any other phthalates
- Antibiotics
- Asbestos
- Any kind of Bisphenol
- Boron
- Dimethylfumarat (DMF)
- Ethylene oxide
- Ethanol (alcohol)
- Gold, Tantalum, Tin, Tungsten
- Iodine
- Melamine
- Mineral oil saturated hydrocarbons (MOSH)
- Mineral oil aromatic hydrocarbons (MOAH)
- Narcotic products
- Nitrite, Nitrate
- Quaternary ammonium compounds
- Sodium, Sodium chloride
- Steroidal anabolic
- Sweeteners (e.g. Aspartame, Saccharin, Steviosid)
- Uranium

The analysis on above mentioned substances is not part of our standard quality and production analyses. Therefore, we cannot warrant or guarantee the absence or level of these substances to any specific limit or threshold value.

## The following information can be found in our Safety Data Sheet (SDS):

Hazard Identification, Composition/Information on Ingredients, REACH-Registration number (if available), (SVHC) Substances of high concern (if applicable), First Aid, Fire Fighting Measures, Accidental release measures, Handling



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and Storage, Exposure Control/Personal Protection, Physical and Chemical Properties, Stability and Reactivity, Toxicological and Ecological Information, Disposal Considerations, Risk Information (e.g. Transportation, Labeling, Risk Phrases). The Water Hazard Class (WGK) is only in the German version of the safety data sheet available. Please, pay attention to the national edition of the SDS! The following e-mail address should be used in order to request the SDS: <a href="mailto:sds-hu@evonik.com">sds-hu@evonik.com</a>

### Evonik Resource Efficiency GmbH

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Evonik Resource Efficiency GmbH | Environment, Safety, Health & Quality | Special Regulations and Applications | Rodenbacher Chaussee 4 | 63457 Hanau-Wolfgang | Germany

Friederike Bühre-Weck (Mrs.) Phone: +49 6181 59–2086 Lothar Krahl (Mr.) Phone: +49 6181 59–3070

 Fax:
 +49 6181 59-72086
 Fax:
 +49 6181 59-73070

 E-mail:
 friederike.buehre-weck@evonik.com
 E-mail:
 lothar.krahl@evonik.com

Evonik Resource Efficiency GmbH | Rellinghauser Straße 1-11 | 45128 Essen | Germany | www.evonik.com Supervisory Board: Dr. Harald Schwager, Chairman; Managing Directors: Dr. Claus Rettig, Chairman, Dr. Johannes Ohmer, Simone Hildmann, Alexandra Schwarz

 $Registered\ Office\ Essen,\ Register\ Court,\ City\ Local\ Court\ Essen,\ Commercial\ Registry\ B\ 25783$ 

#### Legend

BfR: Bundesinstitut für Risikobewertung
CAS: Chemical Abstract Services Register Number

CoE: Council of Europe

CONEG: Coalition of Northeastern Govenors FDA: Food and Drug Administration

INCI: International Nomenclature Cosmetic Ingredients

JHOSPA: Japan Hygienic Olefin and Styrene Plastics Association

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

SAS: Synthetic amorphous silicon dixide, Synthetic amorphous silica