

SIPERNAT® 383 DS

Characteristic physico-chemical data*)

Properties and test methods	Unit	Value
Specific surface area (N ₂) Multipoint following ISO 9277	m ² /g	175
Particle size, d50 Laser diffraction following ISO 13320	µm	7.5
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 6.0
pH value 5 % in water following ISO 787-9	-	8.3
Sieve residue 45 µm spray following ISO 3262-19	ppm	≤ 300
Electrical conductivity 4 % in water following ISO 787-14	µS/cm	≤ 1400
Tamped density not sieved following ISO 787-11	g/l	90
Loss on ignition ²⁾ 2 h at 1000°C following ISO 3262-1	%	≤ 6.0
SiO ₂ content ³⁾ following ISO 3262-19	%	≥ 97
Na content ¹⁾ internal method	%	≤ 1.5
Fe content ¹⁾ internal method	ppm	≤ 400
Sulfate content ¹⁾ following ISO 15350	%	≤ 1.8

1) based on original substance

2) based on dry substance (2 h/105°C)

3) based on ignited substance (2 h/1000°C)

*) The given data are typical values. Specifications on request.

Registrations

SIPERNAT® 383 DS

CAS-No.	112926-00-8 (ex 7631-86-9)
EINECS (Europe)	registered
TSCA (USA) AICS (Australia) DSL (Canada)	registered
PICCS (Philippines) IECSC (China)	registered
ENCS (Japan)	registered
KECI (Korea)	registered
NZIoC (New Zealand)	registered

SIPERNAT® represents a specific product range of precipitated silica, aluminium and calcium silicates.

SIPERNAT® 383 DS is a very finely ground silica with a slightly alkaline pH-value.

Properties and applications

SIPERNAT® 383 DS is particularly well suited for the production of in-situ hydrophobized defoamers. Due to an optimum pH-value of about 8 it facilitates for instance the hydrophobization process of defoamers. It is not necessary to add any catalyst.

Safety and handling

Information concerning the safety of this product is listed in the corresponding Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Operations, Product Safety Department, E-MAIL sds-im@evonik.com We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

For details regarding our packaging options for this product, please contact your local sales representative.

Our silica products are inert and extremely stable chemically. However, due to their high specific surface area, they can absorb moisture and volatile organic compounds from the surrounding atmosphere. Therefore, we recommend storing the products in sealed containers in a dry, cool place, and removed from volatile organic substances. Even if a product is stored under these conditions, after a longer period it can still pick up ambient moisture over time, which could lead to its exceeding the specified moisture content. For this reason, our recommended use-by date is 24 months after date of manufacture. Product more than 24 months old should be tested for moisture content before use in order to make certain that it is still suitable for the intended application.

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Applied Technology

Evonik Operations GmbH

Business Line Silica
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59-3536
FAX +49 6181 59-4096
ask-si@evonik.com
www.silica-specialist.com

Europe/ Middle-East/

Africa/ Latin America

Evonik Operations GmbH
Business Line Silica
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
Germany
PHONE +49 6181 59-8118
FAX +49 6181 59-78118
ask-si@evonik.com
www.silica-specialist.com

North America

Evonik Corporation

Business Line Silica
299 Jefferson Road
Parsippany, NJ 07054-0677
USA
PHONE +1 800 233-8052
FAX +1 973 929-8502
ask-si@evonik.com
www.silica-specialist.com

Asia-Pacific

Evonik (SEA) Pte. Ltd.

Business Line Silica
3 International Business Park
#07-18, Nordic European Centre
Singapore 609927
PHONE +65 6 809 6877
FAX +65 6 809 6677
ask-si-asia@evonik.com
www.silica-specialist.com

Product Safety Information

Evonik Operations GmbH

Product Name: SIPERNAT® 383 DS
Chemical Name: Silicon dioxide, chemically prepared
CAS-No.: 112926-00-8, 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 / Ctrl" and "F" on your keyboard to open the search function, type the search item in the box and press Enter.

Composition / substances

Above mentioned product is a single substance and not a mixture.

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 silicon dioxide fraction followed by X-ray Diffraction. The detection limit of this method is less than 0.1% by weight. The determination of arbitrarily selected samples shows no crystalline silicon dioxide fraction above the detection limit. Under consideration of this result above mentioned silica is considered to be amorphous.

Safety of toys – directive 2009/48/EG, EN 71-3

Concerning the qualification for above mentioned application please visit the chapters 'Heavy metals' and 'Substance declaration'.

Community eco-label to outdoor and indoor paints according to Commission Decision 2014/312/EU

Criterion 4 - Content of Volatile and Semi-volatile Organic Compounds (VOCs, SVOCs)

During the production process of this product we do not intentionally use or add any volatile organic compounds (VOCs) and/or semi-volatile organic compounds. According to the production process and to the best of our knowledge we do not expect any VOCs/SVOCs in this product.

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.

Criterion 5 - Restriction of hazardous substances and mixtures

This product is not a hazardous substance and not listed as SVHC-Substance. Please visit the safety data sheet for detailed information - see chapter "Information on REACH / Substances of Very High Concern (SVHC)".

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 / PBT- and vPvB-substances

This product is not a PBT (persistent, bioaccumulative, toxic) and vPvB (very persistent, very bioaccumulative) substance as per the criteria of the REACH Regulation.

Information on REACH / Annex XIV or Annex XVII

The above-mentioned product is not a substance nor does contain any substances that are subject to authorization and/or restriction according to Annex XIV or Annex XVII of the REACH Regulation, respectively. However, testing of these substances is not part of our standard routine quality control and production testing procedures.

Please, note, the following EU Directives are not in force anymore: 76/769/EEC (restrictions of dangerous substances and preparations) and its amendments 2003/34/EC and 2003/36/EC.

Information on EU-REACH and REACH-like registrations

Please note that the registrations for EU-REACH and REACH-like regulations (i.e. UK REACH, K-REACH, KKDIK etc.) solely apply to products that are manufactured within the respective market by Evonik or directly imported into the respective market by Evonik or its only representative(s). Products being manufactured outside the EU or REACH-like regulated market and not directly imported into that market by Evonik or its only representative(s) are not covered by the registration held by Evonik. To avoid any conflicts with REACH-like regulations, please ask your Evonik supplier contact prior to each delivery for information on the origin of the supplied product(s) and the current status.

RoHS and WEEE Directives

This product fulfils the limitations and requirements of the EU-Directives 2011/65/EU (RoHS), 2012/19/EU (WEEE) and amendments. It is chemically produced. In the production process we do not use or intentionally add the following substances:

lead, cadmium, chromium (total), mercury, polybrominated biphenyls (PBB), polybrominated diphenyl ethers (PBDE), bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP), diisobutyl phthalate (DIBP)

The analysis on these 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.

EuPIA exclusion policy for printing inks

During the production process of this product we do not intentionally use or add any substance from the EuPIA exclusion policy for printing inks. Since testing of these substances is not part of our standard routine quality control and production testing procedures, we therefore cannot warrant or guarantee the absence of these substances in this product.

California List of Chemicals, Proposition 65 (USA)

Please refer to the US Safety Data Sheet, Section 15: Regulatory Information, State Regulations.

Oeko-Tex Standard 100

For further information please visit the chapters "Heavy metals" and "Substance declaration".

CMR or SVHC classified substances and Genotoxic Impurities

Based on our data, the above-mentioned product is a non-hazardous substance according to criteria of CLP Regulation 1272/2008/EC. It is not carcinogenic, mutagenic or toxic for reproduction (CMR). Above-mentioned product is a pure substance. During the manufacturing process of above-mentioned product, we do not intentionally use or add any CMR or SVHC classified substances.

The analysis of CMR and SVHC 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 EU-Directives are no longer in force since 2008: 2003/34/EC, 2003/36/EC and 76/769/EEC ("restriction of dangerous substances and preparations"). **CMR classified substances are part of the SVHC classified substances.** This class of substances is now regulated under REACH-SVHC.

End-of life vehicles

This product fulfils the limitations and requirements of the EU Directive 2000/53/EC. For limit values, please visit the chapters "Heavy metals" and "Substance declaration".

Volatile Organic Compounds (VOCs)

Volatile Organic Compounds are not used or intentionally added during production process of this product. To the best of our knowledge this product does not contain any Volatile Organic Compounds. 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.

Information regarding Annex III of Regulation (EU) 1107/2009 - plant protection products

The above-mentioned product is chemically produced. In the production process we do not intentionally add any substances mentioned in Annex III of Regulation (EC) No. 1107/2009. 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.

Substance declaration

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

Aromatic amines according to Information on REACH Regulation (EU) 1907/2006 (Annex XVII)

Aromatic hydrocarbons with a boiling point lower than 250 °C, Alkylphenol ethoxylates (APEOs), Diethylene glycol methyl ether (DEGME), Isothiazolinone compounds, Formaldehyde or Formaldehyde donators

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 GADSL (version 2024), 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), solvents, halogens, fluorinated compounds, brominated compounds, iodized compounds, organic tin compounds,

azo dye, polyvinyl chloride (PVC) and PVC-blends, latex, ozone depleting substances, phthalates, cyanides, radioactive materials, pesticides, biocides

1,4-Dioxane

Substances listed in Sony's Technical Standards "SS-00259" (version 2022).

Perfluorooctanoic acid (PFOA), Perfluorononanoic acid (PFNA), Perfluorohexane sulfonic acid (PFHxS), Perfluorooctane sulfonates (PFOS) or other PFAS as described in the Scientific Opinion of EFSA (j.efsa.2020.6223)

Antibiotics

Any kind of Bisphenol

Asbestos

Boron

Cobalt

DEHP (diethylhexyl phthalate) and DINP (diisononyl phthalate) or any other phthalates

Dimethylfumarat (DMF)

Ethanol (alcohol)

Ethylene oxide

Gold, Tantalum, Tin, Tungsten

Iodine

Isocyanate

Melamine

Mineral oil aromatic hydrocarbons (MOAH)

Mineral oil saturated hydrocarbons (MOSH)

Narcotic products

Nitrite, Nitrate

Quaternary ammonium compounds

Sodium, Sodium chloride

Steroidal anabolic

Sweeteners (e.g. Aspartame, Saccharin, Steviosid)

Uranium

Zinc oxide

The analysis on these 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.

Registration Status

The above mentioned product is registered in the following inventories:

* Notice: Please see chapter "Information on EU-REACH and REACH-like registrations" -

Australia	AIIC (Australian Inventory of Industrial Chemicals)	listed, registered or exempt
Canada	DSL (Domestic Substance List)	listed, registered or exempt
China	IECSC (Inventory of Existing Chemical Substances in China)	listed, registered or exempt
European Union	EC (European Community)	listed, registered or exempt (see SDS)
European Union	REACH (Registration, Evaluation, Authorisation and Restrictions of Chemicals)	listed, registered or exempt* (see SDS)
Japan	ENCS (Existing and New Chemical Substances)	listed, registered or exempt
New Zealand	NZIoC (New Zealand Inventory of Chemicals)	listed, registered or exempt
Philippines	PICCS (Philippine Inventory of Chemicals and Chemical Substances)	listed, registered or exempt
South Korea	KECI (Korea Existing Chemicals Inventory)	listed, registered or exempt*
Taiwan	TCSI (Chemical Substances Nomination and Notification)	listed, registered or exempt
Turkey	KKDIK (Chemicals Registration Evaluation Authorisation Restriction)	listed, registered or exempt*
United Kingdom	UK REACH	listed, registered or exempt*
USA	TSCA (Toxic Substances Control Act)	listed, registered or exempt

The following information is available in our Safety Data Sheet (SDS):

Hazard Identification, Composition/Information on Ingredients, REACH-Registration number (if available), (SVHC) Substances of very high concern (if applicable), First Aid, Fire Fighting Measures, Accidental Release Measures, Handling 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: sds-hu@evonik.com

Heavy metals and other metal traces

In the production process of this product, we do not intentionally use or add any heavy metal constituents. The overall content of these elements, in their entirety, lies below 100 ppm and is therefore in line with the limits set by the EU Packaging Directive 94/62/EU.

It is also compliant with the requirements of Model Toxics in Packaging Legislation (formerly known as CONEG Legislation, February 2021) with respect to the content of heavy metals (Lead (Pb), Cadmium (Cd), Mercury (Hg) and Chromium (Cr total)). Concerning the compliance with this regulation concerning the PFAS and phthalates content, please visit the chapter Substance Declaration.

Heavy metals

Substance	Concentration
Cadmium (Cd)	≤ 2 ppm
Chromium, total (Cr)	≤ 10 ppm
Mercury (Hg)	≤ 1 ppm
Lead (Pb)	≤ 3 ppm

Other metal-traces

Substance	Concentration
Antimony (Sb)	≤ 3 ppm
Arsenic (As)	≤ 3 ppm
Selenium (Se)	≤ 1 ppm
Barium (Ba)	≤ 50 ppm
Zinc (Zn)	≤ 5 ppm

Iron (Fe)	≤ 400 ppm
Copper (Cu)	≤ 2 ppm
Nickel (Ni)	≤ 3 ppm

The analysis for heavy metals or other metals traces is not part of our standard quality and production analysis. The limits given represent typical values from arbitrarily selected samples, but do not represent any specifications. A total content method was used.

This product safety information sheet replaces all previous versions.

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Evonik Operations GmbH | Smart Materials | Production & Technology | Product Stewardship | Special Regulations & Applications
Rodenbacher Chaussee 4 | 63457 Hanau-Wolfgang | Germany

Contact silica-regulations@evonik.com

Evonik Operations GmbH | Rellinghauser Straße 1-11 | 45128 Essen | Germany | www.evonik.com

Supervisory Board: Dr. Harald Schwager, Chairman

Managing Directors: Dr. Joachim Dahm | Johann-Caspar Gammelin | Lauren Kjeldsen | Dr. Claudine Mollenkopf | Alexandra Schwarz

Registered Office: Essen | Register Court: Local Court Essen | Commercial Registry B 20227

Legend

BfR:	Bundesinstitut für Risikobewertung (German institute for risk assessment)
CAS:	Chemical Abstract Services Register Number
CFR:	Code of Federal Regulation
CoE:	Council of Europe
CosIng:	European Commission database for information on cosmetic substances and ingredients
FCM:	Food contact material
FDA:	Food and Drug Administration
FSMA:	Food safety modernisation act
GRAS:	Generally Recognized As Safe
INCI:	International Nomenclature Cosmetic Ingredients
NHFPC:	National Health and Family Planning Commission of the People's Republic of China
PCPC:	Personal Care Products Council