SIPERNAT®

Product information

SIPERNAT® D 10

Characteristic physico-chemical data*)

Properties and test methods	Unit	Value
Particle size, d50 Laser diffraction following ISO 13320	µm	6.5
Loss on drying 2 h at 105°C following ISO 787-2	%	≤ 4.0
pH value 5 % in water/ methanol 1:1 following ISO 787-9	-	10.3
Wettability by methanol internal method	%	≥ 56
Carbon content elemental analyser LECO following ISO 3262-19	%	3.0
Sieve residue 45 µm spray following ISO 3262-19	ppm	≤ 400
Tamped density not sieved following ISO 787-11	g/l	80
Loss on ignition [2] 2 h at 1000°C following ISO 3262-1	%	≤ 8.0
SiO_2 content [3] following ISO 3262-19	%	≥ 97
Na content [1] internal method	%	≤ 1.2
Fe content [1] internal method	ppm	≤ 400
Sulfate content [1] following ISO 15350	%	≤ 1.0

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® D 10

CAS-No.	67762-90-7
EINECS (Europe)	231-545-4
REACH (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® D 10 is a milled, hydrophobic (i. e. not wettable by water) silica, high methanol wettability and low surface area.

Properties and applications

SIPERNAT® D 10 is used in a great variety of defoamer due to its high effectiveness and ease of dispersion. BfR Recommendations XV, XXI, L11; VO (EU) 10/2011,Ref.-No. 86285; 21 CFR selections 175.105, 175.300 (c)-(e), 176.170, 176.180 (b)(1), 176.200 (b), 176.210 (d)(3).

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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EVONIK
Leading Beyond Chemistry

Product Safety Information — Evonik Operations GmbH

Product Name:	SIPERNAT® D 10
Chemical Name:	Silicones and siloxanes, dimethyl-, reaction products with silica
CAS-No.:	67762-90-7
Customs Tariff Number:	382499

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.

Regulations Brazil

Domain	Legal Record	Registration	Remarks
Food contact articles	MERCOSUR/GMC/RES. No. 39/19 Mercosur technical regulation on "positive list of additives for plastic materials intended for the manufacture of food contact packages and equipment"	List of authorized Additives for plastic materials and polymeric coatings, Appendix I: Mercosur substance number: 87, European reference-number: 86285	The particle size specification for silicon dioxide, silanated will be fulfilled.

Regulations China

Domain	Legal Record	Registration	Remarks
Food contact additive	GB 9685-2016	FCA0738 (A2, A3, A5, A6)	Application in paints & coatings, rubber materials and products, adhesive, paper, cardboard materials and products - dosage as necessary
Food contact additive	NHFPC Year 2018 No. 9	No registration necessary	Application in ink, max. use: 0.038%

Regulations European Union (EU)

Domain	Legal Record	Registration	Remarks
Food contact articles	CoE Resolution AP 2004 (1), coatings, V3 - 12.02.2009	Ref.-No.: 86000 - Silicic acid, silylated, Ref.-No.: 86285 - Silicon dioxide, silanated	C. List 1 of additives
Food contact articles	CoE Resolution AP 2004 (4), rubber products, V1 - 10.06.2004	Ref.-No.: 86000 - Silicic acid, silanated	Appendix 1 - Index list of additives
Food contact articles	CoE Resolution AP 2004 (5), silicones, V1 - 10.06.2004	Ref.-No.: 86000 - Silicic acid, silanated	List 1 - No. 3. Additives
Food contact articles	Paper and Board used in food contact materials and articles (CD-P-MCA) EDQM 2021 1st edition	Appendix of CoE Resolution CM/Res(2020) 9 (7 October 2020 at the 1385th meeting of the Ministers' Deputies) No. 3.1	No remarks

Regulations European Union (EU)

Domain	Legal Record	Registration	Remarks
Food contact articles	Regulation (EC) 1935/2004	This product meets the requirements of the Framework Regulation (EC) 1935/2004 for substances in contact with food.	No remarks
Food contact articles	Regulation (EU) 10/2011	FCM substance No.: 87 - Ref.-No.: 86285 Silicon dioxide, silanated	Annex I, Substances For more information please see below the chapter "More information regarding Regulation (EU) 10/2011"

Regulations Germany

Domain	Legal Record	Registration	Remarks
Food contact articles	§ 4(5) German BedGegstV "German Ink Ordinance"	Annex 14 Table 1 Ref.-No.: 86285 Silicon dioxide, silanated	complies with the compositional requirements for printing inks for direct and indirect food contact
Food contact articles	BfR recommendations: II, III, V, VI, VII, X, XI, XII, XIV, XVI, XVII, XX, XXI, XXII, XXXIV, XXXV, XXXVII, XXXIX, XLII, XLIII, XLVI, L; LII	"Silicic acid, also in silylated form"	BfR recommendation LII are met
Umweltbundesamt - Assessment Basis for plastics and other organic materials in contact with drinking water (KTW-BWGL)	Attachments for Plastics and other organic Materials in contact with drinking water - Polymer specific part	B.3.1 Positive list of starting materials for the production of organic coatings; B.3.1.2 Fillers/colourants; Ref.-No.: 86285 - Silicon Dioxide, silanated	The purity criteria according KTW-BWGL, 5.4.2 Requirements for fillers will be fulfilled

Regulations Japan

Domain	Legal Record	Registration	Remarks
Food contact articles	Japan's positive list for plastic as Food Contact Materials, Section 1, Table 2 - Additives	Reference number: 777, serial number: 798, substance: reaction product of silicon oxide with polymer mainly composed of dimethyl siloxane	Please consider the distinction limit for the use of synthetic resins, special notes and other limitations.

Regulations Switzerland

Domain	Legal Record	Registration	Remarks
Switzerland - SR 817.023.21	Annex 02; Additives for plastics Table 1 - List of additives	FCM substance No.: 5080, Ref-No.: 86285 - Silicon dioxide, silanated	For more information please see below the chapter "More information regarding regulation (CH) 817.023.21"
Switzerland - SR 817.023.21	Annex 09; Additives for silicones Table 1 - List of additives	FCM substance No.: 8083; Siloxanes and silicones, dimethyl, reaction products with silica	For more information please see below the chapter "More information regarding regulation (CH) 817.023.21"
Switzerland - SR 817.023.21	Annex 10; Additives for printing inks Table 1 - List of additives	FCM substance No.: 5080, Ref-No.: 86285 - Silicon dioxide, silanated	For more information please see below the chapter "More information regarding regulation (CH) 817.023.21"

Regulations USA

Domain	Legal Record	Registration	Remarks
Indirect Food Additives; Adhesives and components of coatings	21 CFR 175.105 (a)(1)	(1) The adhesive is prepared from one or more of the optional substances named in paragraph (c) of this section, subject to any prescribed limitations. (Listed as Silicon dioxide, limitation: Not to exceed 2% by weight)	Regulation stipulates that adhesives must be separated from the food by a functional barrier and assumed that cannot be otherwise be reasonably expected to become a component of the food in significant amounts
Indirect Food Additives; Paper and paperboard components	21 CFR 176.170 (b)(2)	Components of paper and paperboard in contact with aqueous and fatty foods	(b)(2) List of substances: Mentioned as silica and dimethylpolysiloxane, 100 centistokes viscosity
Indirect Food Additives; Paper and paperboard components	21 CFR 176.180 (b)(1)	Components of paper and paperboard in contact with dry food	In reference to the listing in 21 CFR 176.210
Indirect Food Additives; Paper and paperboard components	21 CFR 176.200 (c)	Defoaming agents used in coatings	In reference to the listing in 21 CFR 176.210
Indirect Food Additives; Paper and paperboard components	21 CFR 176.210 (d)(3)	Defoaming agents used in the manufacture of paper and paperboard	Listed as silica and dimethylpolysiloxane

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)

The content of VOCs (≤ 0.1%) and SVOCs (≤ 0.1%) of this product were checked as mean-values of arbitrarily selected samples; they are therefore physical-chemical benchmarks (approximate values), and not specifications.

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)".

Allergens

During the production process we do not intentionally use or add any ingredients usually mentioned to be allergens
- according Regulation (EU) No 1169/2011 - Food information to consumers
- according Food Allergen Labeling and Consumer Protection Act (FALCPA) of 2004
- according the Brazilian Resolution RDC No. 727 - Labeling of packaged foods
- 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 are 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.

GMO

In the production process of this product we do not use any Genetically Modified Organisms (GMOs). This product is non-GMO, it does not contain any GMO and has not been in contact with any GMO.

Suitability

This 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. Therefore we confirm that this product is suitable for vegetarian and vegan lifestyle.
Any testing for these materials is not part of our routine quality and production processes and therefore, we do not guarantee their absence in our product specifications.

Irradiation

This 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 for preservative purposes. Since testing on irradiation is not part of our standard routine quality control and production testing procedures, we therefore cannot warrant or guarantee the absence of irradiation in this product.

More information regarding Regulation (EU) 10/2011

- Declaration of compliance (DoC)

This product is in line with the specification and standards of Regulation (EU) 10/2011.
Please visit the chapter "Heavy metals and other metal traces" for information about impurities with restrictions according to Annex II of Regulation (EU) 10/2011.

More information regarding Regulation (CH) 817.023.21

- Declaration of compliance (DoC)

This product is in line with the specification and standards of Regulation (CH) 817.023.21.
Depending on the use of this product in the final product application, different chapter of the regulation with respect to different application, refer to specific annexes. Please pay attention to additional, specific requirements (e.g. required nano specification for the use in the application).

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

This product is chemically produced. In the production process we do not use any raw material of animal or plant origin (as mentioned in EMA/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.

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".

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	REACH - all basic substances and treatment agents are registered and therefore it is	listed, registered or exempt*
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)	pre-registered*
United Kingdom	UK REACH	please contact: reach-im@evonik.com*
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.

Disclaimer

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Legend

BfR:	Bundesinstitut für Risikobewertung (Germin 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 Adiministration
FSMA:	Food safety modernisation act
GRAS:	Generally Recognized As Safe
INCI:	International Nomenclature Cosmetic Ingredients
NHFPC:	National Health and Familiy Planning Commission of the People's Repbulic of China
PCPC:	Personal Care Products Council