

Product Safety Information

Evonik Operations GmbH

Product Name: ACEMATT® OK 500
Chemical Name: Silicon dioxide, chemically prepared / ethene homopolymer
CAS-No.: 112926-00-8, 7631-86-9 and 9002-88-4
Customs Tariff Number: 382499

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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: 504, EU-Reference-no: 86240 Mercosur substance number: 549, EU-Reference-no: 80000	The particle size specification for silicon dioxide will be fulfilled.

Regulations China

Domain	Legal Record	Registration	Remarks
Food contact additive	GB 9685-2016	Silicon dioxide, registration-number FCA0782 (A 1, A 2, A 3, A 4, A 6), Ethene, homopolymer, registration-number FCA0953	Application in plastic

Regulations Europe

Domain	Legal Record	Registration	Remarks
Food contact articles	CoE Resolution AP 2002 (1), paper and boards, V4 – 12.02.2009	Ref.-No.: 86240 - Silicon dioxide, Ref.-No.: 16950 - Ethylene, Ref.-No.: 80000 - Polyethylene wax	A. List 1 of Additives
Food contact articles	CoE Resolution AP 2004 (1), coatings, V3 - 12.02.2009	Ref.-No.: 86240 - Silicon dioxide, Ref.-No.: 16950 - Ethylene, Ref.-No.: 80000 - Ethene Homopolymer (polyethylene wax)	C. List 1 of additives A. List 1 of Monomers
Food contact articles	CoE Resolution AP 2004 (4), rubber products, V1 - 10.06.2004	Ref.-No.: 86240 - Silicon dioxide, Ref.-No.: 16950 - Ethylene, Ref.-No.: 76951 - Ethene Homopolymer (polyethylene wax)	Appendix 1 - Index list of Monomers ... Appendix 1 - Index list of Additives ...

Regulations Europe

Domain	Legal Record	Registration	Remarks
Food contact articles	CoE Resolution AP 2005 (2), packaging Inks, 21 December 2006	Ref.-No.: 86240 - Silicon dioxide, Ref.-No.: 80000 - Polyethylene wax	3.1 Additives List 1 substances evaluated by SCF/EFSA
Food contact articles	Regulation (EU) 10/2011	FCM substance No.: 504 - Ref.- No.: 86240 - Silicon dioxide, FCM substance No.: 125 - Ref.-No.: 16950 - Ethylene, FCM substance No.: 549 - Ref.-No.: 80000 - Polyethylene wax	Annex I, Substances For more information please see below the chapter "More information regarding regulation (EU) 10/2011"

Regulations Switzerland

Domain	Legal Record	Registration	Remarks
Switzerland - SR 817.023.21	Annex 10; Additives for printing inks Table 1 - List of additives	FCM substance No.: 1809, Ref.- No.: 86240 - Silicon dioxide; FCM substance No.: 1933, Ref.-No.: 80000 - Polyethylene wax	For more information please see below the chapter "More information regarding regulation (CH) 817.023.21"
Switzerland - SR 817.023.21	Annex 2; Additives for plastics Table 1 - List of additives	FCM substance No.: 1809, Ref.- No.: 86240 - Silicon dioxide; FCM substance No.: 1933, Ref.-No.: 80000 - Polyethylene wax	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 (2)(c)(1) and (2)(c)(5)	Silicon dioxide for use only as component of adhesives.	(2)(c)(1) Substances generally recognized as safe in food (GRAS) - Agency response letter GRAS Notice No. 000554 - synthetic amorphous silica (silicon dioxide) - (SAS) (2)(c)(5) Silicon dioxide as defined in §172.480(a)
Indirect Food Additives; Adhesives and components of coatings	21 CFR 175.105 (b)(5)	Polymers: Homopolymers and copolymers of the following monomers:	listed as ethylene
Indirect Food Additives; Adhesives and components of coatings	21 CFR 175.300 (b)(1)	Resinous and polymeric coatings	Substances generally recognized as safe in food (GRAS) - Agency response letter GRAS Notice No. 000554 - synthetic amorphous silica (SAS)
Indirect Food Additives; Adhesives and components of coatings	21 CFR 175.300 (b)(3)(xxiii) and (xviii)	Resinous and polymeric coatings	(xxiii) Waxes: Polyethylene wax (xviii) Polyethylene and its copolymers as the basic polymer: Polyethylene

Regulations USA

Domain	Legal Record	Registration	Remarks
Indirect Food Additives; Adhesives and components of coatings	21 CFR 175.300 (b)(3)(xxvi)	Resinous and polymeric coatings	(b)(3)(xviii) Polyethylene and its copolymers as the basic polymer: Polyethylene
Indirect Food Additives; Adjuvants, Production Aids and Sanitizers	21 CFR 178.3570 (a)(1)	Lubricants with incidental food contact	Substances generally recognized as safe in food (GRAS) - Agency response letter GRAS Notice No. 000554 - synthetic amorphous silica (SAS)
Indirect Food Additives; Adjuvants, Production Aids and Sanitizers	21 CFR 178.3570 (a)(3)	Lubricants with incidental food contact	(a)(3) List of substances - polyethylene; Limitation: Addition to food not to exceed 10 parts per million.
Indirect Food Additives; Adjuvants, Production Aids and Sanitizers	21 CFR 178.3850 (d)(1)	Reinforced wax	Substances generally recognized as safe in food (GRAS) - Agency response letter GRAS Notice No. 000554 - synthetic amorphous silica (SAS)
Indirect Food Additives; Adjuvants, Production Aids and Sanitizers	21 CFR 178.3850 (d)(3)	Reinforced wax	(d)(3) List of substances - polyethylene
Indirect Food Additives; Paper and paperboard components	21 CFR 176.180 (b)(1)	Components of paper and paperboard in contact with dry food	Substances that by §176.170 and other applicable regulations in parts 170 through 189 of this chapter may be safely used as components of the uncoated or coated food-contact surface of paper and paperboard, subject to the provisions of such regulation.
Indirect Food Additives; Paper and paperboard components	21 CFR 176.180 (b)(2)	Components of paper and paperboard in contact with dry food	listed as ethylene
Indirect Food Additives; Polymers	21 CFR 177.1200 (b)(1) and (c)	Cellophane	(b)(1) Substances generally recognized as safe in food (GRAS) - Agency response letter GRAS Notice No. 000554 - synthetic amorphous silica (SAS) (c) listed as Silica
Indirect Food Additives; Polymers	21 CFR 177.1200 (c)	Cellophane	(c) List of substances - polyethylene
Indirect Food Additives; Polymers	21 CFR 177.2600 (c)(1) and (d)(v)	Rubber articles intended for repeated use	(c)(1) Substances generally recognized as safe in food (GRAS) - Agency response letter GRAS Notice No. 000554 - synthetic amorphous silica (SAS) (d)(v) Fillers: Silica

Regulations USA

Domain	Legal Record	Registration	Remarks
Indirect Food Additives; Polymers	21 CFR 177.2600 (c)(4)(v)	Rubber articles intended for repeated use	(c)(4)(v) List of substances / Fillers - Polyethylene

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 0.1% by weight. The determination of arbitrarily selected samples shows no crystalline 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 VOC's ($\leq 0.1\%$) and SVOC's ($\leq 0.1\%$) 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 product safety information and safety data sheet for detailed information.

Allergens

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

Application Information - Silicon dioxide as defined in GB 2760-2014

Chapter 01.08 - Other milk products (e.g. whey powder, protein powder), not to exceed 1.5% by weight

Chapter 01.03 - Silicon dioxide - Milk powder and cream powder, not to exceed 1.5% by weight

Chapter 02.05 - Non-dairy creamer, not to exceed 1.5% by weight

Chapter 03.0 - Frozen drink (except edible ice), not to exceed 0.05% by weight

Chapter 05.01.01 - Coco products, not to exceed 1.5% by weight

Chapter 06.01 - Raw cereals, not to exceed 0.12% by weight

Chapter 06.03.02.04 - Panada, breaded, fried powder, not to exceed 2% by weight

Chapter 10.03.01 - Dehydrated egg products (e.g. egg white powder, egg yolk powder), not to exceed 1.5% by weight

Chapter 11.06 - Powdered sugar, not to exceed 1.5% by weight

Chapter 12.01 - Salt and salt substitute, not to exceed 2% by weight

Chapter 12.09 - Spicy, not to exceed 2% by weight

Chapter 12.10.01 - Powdered mixture seasoning, not to exceed 2% by weight

Chapter 13.05 - NHC Year 2019 No. 2, food for special medical purpose for year 1-10, not to exceed 1% by weight

Chapter 14.06 Powdered drink, not to exceed 1.5% by weight

Chapter 16.07 - Others (bean product process), not to exceed 0.0025% by weight

Information concerning Regulation (EC) No 1935/2004 on materials and articles

This product meets the requirements of the Framework Regulation (EC) 1935/2004 for substances in contact with food.

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.

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.

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 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.

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, vPvB substance as per the criteria of the REACH Regulation.

Information on REACH / Annex XIV or Annex XVII

This product is not a substance and does not contain any substances subject to authorization and/or restriction according to Annex XIV or Annex XVII of the REACH Regulation (EC) No. 1907/2006, respectively. However, testing of these substances is not part of our standard routine quality control and production testing procedures.

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:

pentabromodiphenylether, octabromodiphenylether, lead, cadmium, chromium (total), mercury, polybrominated biphenyls (PBBs), polybrominated diphenylethers (PBDE), Di(2-ethylhexyl)phthalate (DEHP), Butylbenzylphthalate (BBP), Dibutylphthalate (DBP), Diisobutylphthalate (DIBP), chlorinated organic compounds, such as PCB, PCN, CP, mirex, organic tin compounds, asbestos, azo compounds, polyvinyl chloride (PVC) and PVC-blends.

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.

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)

In the production process of this product we do not intentionally use or add any of the substances on the California list of chemicals (USA), Proposition 65, in the current published version. 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.

Oeko-Tex Standard 100

For limit values please visit the chapters "Heavy metals" and "Substance declaration".

C.M.R. classified substances

The following EU-Directives are since 2008 no longer in force:

2003/34/EC, 2003/36/EC and 76/769/EEC ("restrictions of dangerous substances and preparations"). 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".

“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 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 2019 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), halogenated solvents, organic tin compounds, asbestos, azo dye, polyvinyl chloride (PVC) and PVC-blends, latex, ozone depleting substances, phthalates, cyanides, radioactive materials, pesticides, 1,4-Dioxane

Substances listed in Sony’s Technical Standards “SS-00259” 15th edition 2017.

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) formerly regulated in in EC-Directive 2006/122/EC.

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 are 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:

Australia	AICS (Australian Inventory of Chemical Substances)	registered (0815)
Canada	DSL (Domestic Substance List)	registered
China	IECSC (Inventory of Existing Chemical Substances in China)	registered
Europe	REACH - all basic substances and treatment agents are registered and therefore it is	exempted
Europe	EC (European Community)	registered (231-545-4)
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
Taiwan	TCSI (Chemical Substances Nomination and Notification)	registered
USA	TSCA (Toxic Substances Control Act)	registered

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 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 the Coalition of Northeastern Governors (CONEG) model legislation limiting heavy metals (January 1994).

Heavy metals

Substance	Concentration
Cadmium (Cd)	≤ 1 ppm
Chromium, total (Cr)	≤ 10 ppm
Lead (Pb)	≤ 5 ppm
Mercury (Hg)	≤ 1 ppm

Other metal-traces

Substance	Concentration
Antimony (Sb)	≤ 5 ppm
Arsenic (As)	≤ 3 ppm
Barium (Ba)	≤ 50 ppm
Copper (Cu)	≤ 6 ppm
Iron (Fe)	≤ 400 ppm
Nickel (Ni)	≤ 3 ppm

Selenium (Se)	≤ 1 ppm
Zinc (Zn)	≤ 10 ppm

(The analysis for heavy metals or other metals traces is not part of our standard quality and production analyses. The limits given represent typical values from arbitrarily selected samples, but do not represent any specifications)

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Evonik Operations GmbH | Smart Materials | Production & Technology | Product Safety | Special Regulations & Applications
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Registered Office: Essen | Register Court: Essen | Local Court | Commercial Registry B 20227

Legend

BfR:	Bundesinstitut für Risikobewertung
CAS:	Chemical Abstract Services Register Number
CoE:	Council of Europe
CONEG:	Coalition of Northeastern Governors
CosIng	European Commission database for information on cosmetic substances and ingredients
FDA:	Food and Drug Administration
FSMA	Food safety modernisation act
INCI:	International Nomenclature Cosmetic Ingredients
JHOSPA:	Japan Hygienic Olefin and Styrene Plastics Association
PBT:	Persistent, Bioaccumulative, Toxic
PCPC	Personal Care Products Council
SAS:	Synthetic Amorphous Silicon dioxide, Synthetic Amorphous Silica
vPvB:	very Persistent, very Bioaccumulative