

REGULATORY DATASHEET SABIC® PP RA1E10H - 00900

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Version: August 16 , 2023

According to the requirements of Article 6(3) of the EU REACH regulation, any manufacturer or importer of a polymer that comprises more than 2% of (a) chemically bound monomer(s) in a volume exceeding 1000 kg per year has to register the monomer(s) used. SABIC appointed its affiliate SABIC Petrochemicals B.V. based in the Netherlands to fulfil its tasks and responsibilities for complying with the legal requirements of the EU REACH regulation. SABIC Petrochemicals B.V., representing SABIC, has successfully registered the monomer(s) used in the SABIC Product under the EU REACH regulation.

Plastic materials, such as produced by SABIC are mixtures (preparations) (the polymer part, residual monomer, additives, etc.). According to the EU REACH regulation preparations do not need to be registered separately, provided that the individual parts of the mixture are (pre)-registered.

For substances for which SABIC is a Downstream User, and thus has no registration obligation itself, SABIC has contacted its suppliers and confirmed that all their registration obligations under the EU REACH regulation have been met. SABIC will not use any product or will do business with a supplier that is not in compliance with the EU REACH regulation. SABIC Petrochemicals B.V., representing SABIC, has registered all (imported) substances for which there was a registration obligation and will continue to ensure SABIC's regulatory compliance with the EU REACH regulation.

It has to be noted that the EU REACH registration of the substance(s) subject to registration in the SABIC Product is restricted to the product as manufactured by SABIC in the EU or imported by SABIC Petrochemicals B.V. and cannot be used by or relied upon by any third party.

This SABIC Product is not a dangerous preparation according to the requirements of EU Regulation (EC) 1272/2008 on the classification, labelling and packaging of substances and mixtures, and its amendments. Therefor the SABIC Product is not subject to the requirements of Article 31(1) and 31(2) of the EU REACH regulation. As a result SABIC has no legal obligation to set up a Safety Data Sheet according to Article 31 (6) and Annex II of the EU REACH regulation and the fact that SABIC issues such a Safety Data Sheet should be regarded as information provided on a voluntary basis as part of SABIC's responsible care efforts. It should be observed that a Safety Data Sheet, issued by SABIC, does not always contain all of the mandatory information on the use and application of a SABIC Product or other information derived from the EU REACH notification of the SABIC Product.

Regarding the presence of Substances of Very High Concern, we can inform you as follows:

According to the recipe in the production of the SABIC Product, SABIC does not intentionally add:

- Substances of Very High Concern (SVHC), included in the most recent and authentic "Candidate List of Substances of Very High Concern for Authorisation", in a concentration above the threshold limit of 0.1%, as published by the European Chemicals Agency (ECHA) on <http://echa.europa.eu/web/guest/candidate-list-table>, dated June 14, 2023 (List of 235 substances)
- Substances subject to the provisions of Annex XIV (Authorisation) or Annex XVII (Restriction) of the EU REACH regulation, and its amendments.

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Version: August 16 , 2023

- Substances listed in the UK REACH Candidate List of Substances of Very High Concern (SVHCs) for Authorisation in accordance with Article 59(10) of UK REACH.

Although these substances as such are not intentionally added to the SABIC Product, and the absence has not been checked by tests, this does not exclude the presence of negligibly slight traces due to, amongst others, impurities in the components supplied by external parties and used in the production of such components.

This SABIC Product may contain residual traces of a phthalate¹, originating from the catalyst system used in its manufacturing process. Since these residual traces are not intentionally added by SABIC to the SABIC Product to achieve a technical effect in the final article, they are regarded by SABIC as an impurity². According to the ECHA Guidance on registration (V.2.0 of May 2012), impurities are exempted from the obligation to register and are therefore not subject to Authorisation or Restriction.

Moreover, the content of the residual phthalate present in the SABIC Product is far below the lowest concentration limit as specified in:

- Annex I of Regulation (EC) No. 1272/2008 of the European Parliament and the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) 1907/2006, which result in the classification of materials as hazardous. According to Article 56(6)(b) of REACH such concentrations are **exempted** from Authorisation.
- Annex XVII (Restriction) of the Regulation (EC) No 1907/2006 incl. amendments.

Therefore, SABIC considers above-mentioned use of phthalates not subject to the requirements of Annex XIV (Authorisation) and/or Annex XVII (Restriction) of the EU REACH regulation, and its amendments.

¹ The identity of this substance is subject to confidentiality provisions of SABIC.

² ECHA Guidance for identification and naming of substances under REACH and CLP (V.2.0 of March 2012):
"Impurity: An unintended constituent present in a substance as manufactured. It may originate from the starting materials or be the result of secondary or incomplete reactions during the manufacture process. While it is present in the final substance it was not intentionally added".

Status of SABIC Product with respect to Phthalates / Endocrine Disruptors / CMR substances / Cosmetics Regulation / EuPIA Exclusion Policy

We can inform you that this SABIC Product contains residual traces of a phthalate, originating from the catalyst system used in its manufacturing process.

The used phthalate is allowed as a *"technical support agent in polyolefins in concentrations up to 0.05 % in the final product"* according to Commission Regulation (EU) 10/2011 on materials and articles intended to contact food. The residual phthalate traces fully comply with the applicable requirements listed in that regulation and in Regulation 2005/84/EC on phthalates in toys and childcare articles (repealed by Commission Regulation (EU) no 2018/2005).



Version: August 16 , 2023

These residual phthalate traces are not subject to authorization and Annex XIV (Authorisation List) of European Regulation (EC) No 1907/2006 incl. amendments (see Status of SABIC Product with respect to REACH Registration / SVHC / ANNEX XIV / ANNEX XVII).

According to the recipe in the production, the SABIC Product does not contain substances listed by the following lists or regulations, except for above-mentioned residual traces of a phthalate:

- Substances listed in the Endocrine Disruptor Lists I, II and III (www.edlists.org; latest update April 2022). That also covers substances referred to in item I and II of Article L. 5232-5 of the Public Health Code, France.
- Substances classified as CMR (all categories) according to the Regulation (EC) 1272/2008 on the classification, labelling and packaging of substances and mixtures and its amendments, except for authorised substances as referred to in Articles 5 and 6 of EU Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food, and its amendments.
- “Substances prohibited in cosmetic products” as listed in Annex II or “Substances which cosmetic products must not contain except subject to the restrictions laid down” as listed in Annex III of EU Regulation (EC) No 1223/2009/EC on cosmetic products including amendments up to and including Commission Regulation (EU) 2022/2195 of 10 November 2022.
- Substances (Group A – G) as listed in the EuPIA Exclusion Policy for printing inks and related products, 4th Edition of March 2021.

Status of SABIC Product with respect to California Proposition 65

According to the recipe in the production of the SABIC Product, the following substance(s) as such is / are not intentionally added:

- Substances (at levels resulting in exceedance of indicated safe harbor levels) mentioned in the list of chemicals known to cause cancer or reproductive toxicity (Safe Drinking Water and Toxic Enforcement Act of 1986) of the California Proposition 65, updated August 11, 2023.

According to the recipe in the production, the trace residuals of a phthalate originating from the catalyst system used in the polymerization process do not exceed indicated safe harbor levels.

Status of SABIC Product with respect to Animal origin, TSE/BSE, Kosher/Halal

According to the recipe in the production of the SABIC Product, the following substances as such are not intentionally added:

- alcohol

The absence has not been checked by tests.

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Version: August 16 , 2023

It has to be recognized that the SABIC Product is not produced in an exclusive "Halal or Kosher Certified" surrounding.

We have to inform you that according to the recipe in the production of the SABIC Product, substances of bovine origin are used.

Our suppliers have informed us that in line with Commission Regulation (EU) No. 142/2011 of 25 February 2011 implementing Regulation (EC) No. 1069/2009, the sourced fats are coming from BSE free countries or are obtained exclusively from class 3 animal by-products.

During the production process, the fats undergo:

- a hydrogenation process at temperature above 220° C for at least 120 minutes at more than 15 bars
- a hydrolysis or hydrolytic reaction at a temperature above 200° C for at least 120 minutes at 20 bars.

It is the opinion of our suppliers that their process fully exceeds the conditions recommended by:

- Note for guidance on minimising the risk of transmitting animal spongiform encephalopathy agents via human and veterinary medicinal products (EMA/410/01 rev. 3)
- CPMP (Committee for Proprietary Medical Products) in guideline BWP/5136/03 of 21 October 2004 and amendments
- Scientific Committee on Cosmetology of 24 June 1997 and the conditions mentioned in Annex VI chapter III of Regulation (EC) No. 1774/2002
- Annex II of Commission Directive 2000/6/EC of 24 January 2000

Based on this information there is no reason for SABIC to take action or to switch its source of supply, unless it is requested to do so by authorities in order to guarantee absence of animal-based derivatives in the additives used.

Status of SABIC Product with respect to Per- and PolyFluorinated Alkyl Substances (PFAS)

According to the recipe in the production of the SABIC Product, the following substances as such are not intentionally added:

- Per- and PolyFluorinated Alkyl Substances (PFAS) including, but not limited to:
 - Per- and PolyFluorinated Carboxylic Acids (PFCA) and their derivatives (e.g. Long Chain PerFluorinated Alkyl Carboxylates (LCPFAC) and their salts and precursors, TFA, PFPA, HFBA, PFHxA, PFOA, PFNA and "GenX substances")
 - Per- and PolyFluorinated Sulfonic Acids (PFSA) and their derivatives (e.g. PFBS, PFHxS, PFOS, PFOSA)
 - PerFluoroEther Carboxylic Acids (PFECA) and their derivatives
 - PerFluoroEther Sulfonic Acids (PFESA) and their derivatives

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Version: August 16 , 2023

- PerFluoroAlkyl Phosphonic or Phosphinic Acids (PFPhA, PFPiA) and their derivatives
- Fluorinated polymers (e.g. PTFE, FEP, PVDF, PVF)
- PerFluoroPolyEthers (PFPE)

Status of SABIC Product with respect to PPW / ELV / RoHS / WEEE / CONEG

The chemical composition of the SABIC Product complies with:

- EU Directive **94/62/EC** of 20 December 1994 on packaging and packaging waste (**PPW**), up to and including EU Directive (EU) 2018/852 of 30 May 2018.
- EU Directive **2000/53/EC** of 18 September 2000 on end-of life vehicles (**ELV**), up to and including Commission Delegated Directive (EU) 2020/363 of 17 December 2019.
- EU Directive **2002/95/EC** of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (**RoHS 1**), recast by European Directive **2011/65/EU (RoHS 2)**, amended by European Directive (EU) **2015/863** of 31 March 2015 (**RoHS 2 amendment**), up to and including Commission Delegated Directive (EU) 2023/171 of 28 October 2022.
- China Standard GB/T 26572-2011, "Requirements of concentration limits for certain restricted substances in electrical and electronic products." issued by China's Ministry of Industry and Information Technology (MIIT).

Since the SABIC Product does not contain brominated flame retardants, this material is not subject to the selective waste requirements of Annex VII of Directive **2012/19/EU** of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (**WEEE**) and amendments.

With respect to heavy metals (Cadmium, Mercury, Lead and hexavalent Chromium), the chemical composition of the SABIC Product complies with:

- EU Directive **94/62/EC** of 20 December 1994 on packaging and packaging waste (**PPW**), up to and including EU Directive (EU) 2018/852 of 30 May 2018.
- EU Directive **2000/53/EC** of 18 September 2000 on end-of life vehicles (**ELV**), up to and including Commission Delegated Directive (EU) 2020/363 of 17 December 2019.
- Coalition of Northeastern Governors (**CONEG**) developed "**Model Toxics in Packaging Legislation**".

The SABIC Product is not classified as "hazardous mixture" according to EU Regulation (EC) 1272/2008 on the classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

We can inform you that based on the acute toxicity information (oral rat LD₅₀) for high molecular weight polymers in general, to the best of our knowledge, it is our opinion that the SABIC Product is essentially non-toxic if used and handled according to specifications outlined in the Safety Data Sheet (SDS).

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Version: August 16 , 2023

We advise you to follow the safety guidelines and recommendations in the SDS.

Status of SABIC Product with respect to certain restricted substances

According to the recipe in the production of the SABIC Product, the following substances as such are not intentionally used or added:

- Acetone
- Acetyl tributyl citrate (ATBC)
- Acrylamide(s)
- Acrylonitrile
- Active and intelligent materials as defined in Commission Regulation (EC) No 450/2009 of 29 May 2009.
- AlkylPhenols (AP) and AlkylPhenol Ethoxylates (APE) (e.g. nonylphenol or nonylphenol ethoxylates)
- Amide solvents such as, but not limited to, N,N-dimethylformamide (DMF), N,N-dimethylacetamide (DMA) and N-methyl-2-pyrrolidone (NMP)
- Amine catalysts, amine reagents, amine solvents
- Anisoles (incl. chloro and bromo anisoles)
- Anthraquinone and its derivatives
- Antimicrobials (antibiotics, disinfectants, antiseptics)
- Antimony trioxide, antimony pentoxide
- (Aromatic) diamines (e.g. benzidine, 4,4'-methylenedianiline (MDA))
- Asbestos
- Azides
- Aziridine(s)
- Azodicarbonamide(s), hydrazine(s)
- Azo-dyes, azo-pigments and azo-colorants
- BADGE, BFDGE or NOGE and derivatives as referred to in Commission Regulation (EC) No 1895/2005 of 18 November 2005 on the restriction of use of certain epoxy derivatives
- Benzene
- Benzophenone and its derivatives
- Benzo[a]pyrene, benzo[e]pyrene
- Benzotriazole (BTA)
- Biocides (preservatives, insecticides, disinfectants, antiseptics, pesticides, fumigants)
- Bisphenol-A, -AP, -AF, -B, -BP, -C, -C2, -E, -F, -G, -M- S, -P, -PH, -TMC, -Z
- Boric acid; diboron trioxide; tetraboron disodium heptaoxide, hydrate; disodium tetraborate, anhydrous; orthoboric acid sodium salt; disodium tetraborate decahydrate; disodium tetraborate pentahydrate
- Butylated hydroxyanisole (BHA)

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Version: August 16 , 2023

- Butylated hydroxytoluene (BHT)
- Carbamates
- Chlorinated paraffins (SCCP, MCCP, LCCP)
- Chlorobenzene
- Chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs)
- Chlorophenols (e.g. pentachlorophenol)
- 2-Chloro-propanol
- 3-Chloro-1,2-propanediol (3-MCPD)
- Cobalt (Co) or mica sourced from conflict-affected and high-risk areas in accordance with the OECD Due Diligence Guidance for Responsible Supply Chains of Minerals from Conflict-Affected and High-Risk Areas.
- Conflict Minerals (cassiterite / tin; columbite-tantalite (coltan) / tantalum; wolframite / tungsten and gold), as referred to in Title XV, Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act
- Cyanides
- Cytotoxins, endotoxins, hormones
- 1,3-Dichloro-2-propanol (1,3-DCP)
- Dimethylfumarate (DMF)
- Dioxins and furans
- 2-Ethylhexylhexanoic acid (2-EH)
- Ethylene oxide
- Engineered nanomaterials
- Epichlorohydrin
- Formaldehyde
- Flame retardants (incl. chlorinated, brominated, phosphorous-based (organophosphorus) compounds) (e.g. HBCD, TBBPA, phosphinates)
- Fragrances, perfumes
- Genetically Modified Organisms (GMO) or substances derived thereof
- Glycol ethers
- Glyoxal (ethanedial)
- Ground bamboo, bamboo flour or fibers, corn flour
- Human pathogens
- Human substances and substances of human origin (e.g. blood, DNA, insulin)
- (Iso)cyanates
- Latex, natural rubber
- Melamine

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Version: August 16 , 2023

- Metals: Arsenic (As), Cadmium (Cd), hexavalent Chromium (Cr⁶⁺), Lead (Pb), Mercury (Hg), Gold (Au), Iridium (Ir), Molybdenum (Mo), Nickel (Ni), Osmium (Os), Palladium (Pd), Platinum (Pt), Rhodium (Rh), Ruthenium (Ru), Selenium (Se), Silver (Ag), Thallium (Tl), Tin (Sn), Vanadium (V).
- Methylene chloride
- Methyl Ethyl Ketone (MEK)
- Methyl IsoButyl Ketone (MIBK)
- Microorganisms / Microbes (e.g. bacteria, fungi, yeasts, moulds, archaea, protists, viruses)
- Nitrates, Nitrites, Nitric acid, Nitrous acid, Nitrosating agents, Nitrating agents
- Nitro compounds (aliphatic and aromatic) such as, but not limited to, nitrosamines, nitroso compounds, nitroalkanes, nitroalkenes, nitrocellulose, nitrofurazone and nitrobenzene.
- Organotin (organostannic) compounds (mono-, di-, tri-alkyltins and their derivatives, such as, but not limited to MBT, DBT, TBT, TeBT, MOT, DOT, TPhT, TcMT)
- Ozone Depleting Substances (ODS) according to the Montreal protocol, EU Regulation (EU) No 2017/265 amending Regulation (EC) No 1005/2009 or Class I and II ODS according to the US Clean Air Act, Title VI.
- Fluorinated Greenhouse Gases according to Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006.
- Paint-Wetting Impairment Substances (PWIS)
- Parabens
- (very) Persistent, (very) Bioaccumulative and/or Toxic substances (PBT and/or vPvB)
- Persistent Organic Pollutants (POP) according to the Stockholm Convention or EU Regulation (EC) No 850/2004 (amending Directive 79/117/EEC), recast by EU Regulation (EU) No 2019/1021, including amendments up to and including Commission Delegated Regulation (EU) 2023/1608.

*This statement does not include information about presence or absence of PFAS, please find information about PFAS in the respective chapter of this declaration.

- Phenol, resorcinols, cresols, catechols
- Photoinitiators (e.g. isopropylthioxanthone (ITX))
- Plasticizers, softeners (Tris(2-chloroethyl) phosphate (TCEP), trimellitates, adipates, sebacates, maleates, sulfonamides)
- Polybrominated Terphenyls (PBT) / Polychlorinated Biphenyls (PCB)
- Polybrominated Biphenyls (PBB) or Polybrominated Diphenyl Ethers (PBDE)
- Polychlorinated Phenols (PCP) / Polychlorinated Naphthalenes (PCN)
- Polycyclic Aromatic Hydrocarbons (PAH)
- Polyvinylchloride (PVC), Polyvinylidene chloride (PVDC), Chlorinated Polyvinylchloride (CPVC) and Polychloroprene (neoprene)
- Primary Aromatic Amines (PAA) and substances that can generate primary aromatic amines.

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Version: August 16 , 2023

- Pyridine(s)
- Quaternary ammonium compounds
- Radioactive substances
- Rare-earth elements: Cerium (Ce), Dysprosium (Dy), Erbium (Er), Europium (Eu), Gadolinium (Gd), Holmium (Ho), Lanthanum (La), Lutetium (Lu), Neodymium (Nd), Praseodymium (Pr), Promethium (Pm), Samarium (Sm), Scandium (Sc), Terbium (Tb), Thulium (Tm), Ytterbium (Yb), and Yttrium (Y).
- Recycled materials
- Rosin, colophony (a.k.a. colophonium) and substances derived thereof
- Semicarbazide
- Silicones, silicone oils, siloxanes
- Substances (above the mentioned concentration levels) as listed in the Global Automotive Declarable Substance List (GADSL) reference list, version V1.0, February 1st, 2023.

*This statement does not include information about presence or absence of PFAS, please find information about PFAS in the respective chapter of this declaration. This statement does not include information about presence or absence of Critical Raw Materials (CRM) by the European Commission.

- Substances (above limit values applying to Product class I) as listed in Annex 4 of the OEKO-TEX® Standard 100, Edition 01.2023
- “Substances causing allergies or intolerances” as listed in Annex II of Regulation (EU) No 1169/2011 of the European Parliament and of the Council of 25 October 2011 on the provision of food information to consumers. These include: Cereals, Crustaceans, Eggs, Fish, Peanuts, Soybeans, Milk, Nuts, Celery, Mustard, Sesame seeds, Sulphur dioxide and sulphites, Lupin and Molluscs
- Substances on the OSPAR List of Chemicals for Priority Action (Revised 2013)
- Substances that could potentially be converted into nitrosamine compounds (nitrosatable substances) in any of the manufacturing steps and applied process conditions.
- Substances classified as Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under Toxic Substances Control Act (TSCA), Section 6(h), as amended by the Frank R. Lautenberg Chemical Safety for the 21st Century Act, including those issued by the US EPA via five final rules on January 6, 2021:

○ Decabromodiphenyl ether (DecaBDE)	CASRN 1163-19-5
○ Phenol, isopropylated phosphate (3:1) [PIP (3:1)]	CASRN 68937-41-7
○ Pentachlorothiophenol (PCTP)	CASRN 133-49-3
○ Hexachlorobutadiene (HCBd)	CASRN 87-68-3
○ 2,4,6-tris(tert-butyl) phenol, (2,4,6-TTBP)	CASRN 732-26-3
- Thiurams
- Titanium acetylacetonate (TAA)
- Triaryl phosphites, Triclosan, Triclocarban
- Triethyl amine
- 2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (TXIB)
- Tris(nonylphenyl, branched and linear) phosphite (TNPP)

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Version: August 16 , 2023

- Vinyl Chloride Monomer (VCM)
- Volatile Organic Compounds in a concentration exceeding the limit (3%) of the Swiss regulation SR 814.018: "Verordnung über die Lenkungsabgabe auf Flüchtigen Organischen Verbindungen (VOCV)" of November 12th 1997
- Xylene

Status of SABIC Product with respect to Halogen content

Regarding the presence of halogens in the SABIC Product we can inform you that according to the recipe in the production the following substances as such are not intentionally used or added:

- Halogens (Bromine, Fluorine, Iodine, Astatine, except for Chlorine) or halogen compounds.

The SABIC Product contains trace amounts of organic or inorganic chlorine compounds, originating from the catalyst system used in the manufacturing process (Chlorine level is <50 ppm). It is a "Halogen-Free" material according to the International Electrochemical Commission's (IEC) definition of Halogen-Free (IEC 61249-2-21).

General information

Although several substances are declared as not intentionally added to the SABIC Product in the above-mentioned statements, their absence has not been checked by tests. This does not exclude the presence of negligibly slight traces due to, amongst others, impurities in the components supplied by external parties and used in the production of such components.

This declaration applies to the SABIC Product as it leaves its production facilities. It does not cover any substance(s) or preparation(s) subsequently added and/or in expert material processing or article fabrication further down in the supply chain.

Please note carefully that regulations develop continuously and that SABIC declarations may be adapted accordingly. This declaration replaces all previous versions relating to this subject and product, and will be valid for a period of 1 (one) year, after which it will automatically expire.



Version: August 16 , 2023

If you have any further questions, or require any additional information on the above, please use the “[Contact Us](#)” form on the SABIC website. After selecting the option “[Products](#)” and your product, choose “[Regulatory](#)” as option under “[What is the nature of your inquiry](#)”. The form is available via <https://www.sabic.com/en/contact>.

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