

PRODUCT REGULATORY INFORMATION SHEET**EASTMAN**

Print Date: 8/6/2019

Version: 07/18/2019 (00,001.00,021)

71092326

Estar(TM) Copolyester GN001

PRODUCT NAME
Estar(TM) Copolyester GN001

COMPANY INFORMATION	
Address	Corporate Headquarters: Eastman Chemical Company 200 South Wilcox Drive Kingsport, TN 37660 Eastman Chemical Company P. O. Box 511 Kingsport, TN 37662 Telephone: 1 423 229-2000 or 1 800 EASTMAN

COSMETICS INFORMATION	
EMEA Region	
Regulation (EC) No. 1223/2009	As required in Article 15 (Substances classified as CMR substances), Eastman has determined that this product does not contain any substances that have been identified/classified as a carcinogen, mutagen, or reproductive toxicant (CMR; categories 1A and 1B), as defined under Regulation (EU) 1272/2008 or its amendments.
Other Information	Eastman does not analyze this product for the substances listed in Annexes II or III of Regulation 1223/2009 as published on the date of this document; however, we have no reason to expect the listed substances to be present.

FOOD CONTACT / FOOD ADDITIVE INFORMATION	
EMEA Region	
European Union	
Declaration of Compliance for Food Contact: Commission Regulation (EU) No. 10/2011 (and amendments)	This product complies with the compositional requirements of this regulation for plastics used in food-contact applications. The final product must meet the overall migration limit of 60 mg/kg of food or 10 mg/square decimeter of the plastic. There are also specific migration limits for terephthalic acid (7.5 mg/kg of food) and ethylene glycol or diethylene glycol (30 mg/kg of food). Based on data obtained by Eastman, articles produced from this polymer should comply with the applicable overall and specific migration limits when tested with 3% acetic acid, 10% ethanol and simulant D under conditions including 2 hours at 70°C followed by 10 days at 40°C. Regarding the dual use additives provision, there are no additives subject to restrictions on concentrations in food as a food additive. This product is intended for use to manufacture materials and articles in compliance with the general requirements of Regulation (EC) 1935/2004. This product is produced under good

PRODUCT REGULATORY INFORMATION SHEET**EASTMAN**

Print Date: 8/6/2019

Version: 07/18/2019 (00,001.00,021)

71092326

Eastar(TM) Copolyester GN001

	manufacturing practices in compliance with EU Regulation 2023/2006.
North America Region	
United States	
Food Law Compliance	Under regulations administered by the U.S. Food and Drug Administration (FDA), this product may lawfully be used as articles or components of articles intended for use in contact with food subject to provisions of 21 CFR 177.1315(b)(1), and Food Contact Notifications No. 179 and 1234. This product as supplied by Eastman Chemical Company, complies with the compositional and inherent viscosity requirements of FCN 179 and FCN 1234. FCNs 179 and 1234 provide a wider range of conditions of use than 21 CFR 177.1315. Under FCN 179, this product may lawfully be used as films or articles or components of films or articles, in either a non-oriented or oriented finished form, intended for contact with foods aqueous, acidic, low (alcohol up to 13% by volume), fatty under Conditions of Use C (hot filled or pasteurized above 150°F) through G (frozen storage - no thermal treatment in the container). FCN 179 also permits use in contact with foods containing up to 25%, by volume, alcohol under conditions of use E (room temperature filled and stored - no thermal treatment in container) through Condition of Use G. FCN 1234 includes the previous Conditions of Use from FCN 179, but additionally allows for use in contact with foods containing up to 50 percent by volume alcohol under Conditions of Use E through G. Based on results from testing of representative polymers, we expect that articles made under good manufacturing practices will meet the relevant requirements of these food contact clearances.
FCN Number	179
FALCPA	This product is not derived from the following materials identified in the Food Allergen Labeling and Consumer Protection Act of 2004 as major food allergens: milk, egg, fish, Crustacean shellfish, tree nuts, wheat, peanuts and soybeans.

OTHER APPLICABLE REGULATIONS	
EMEA Region	
European Union	
Regulation (EC) No. 1907/2006 on the Registration, Evaluation and Authorisation of Chemicals (REACH) - Substances of Very High Concern	With reference to the SVHC Candidate List, as amended up to and including the 16 July 2019 update, this product placed on the market in the European Union is not known to contain any substances listed on the candidate list of Substances of Very High Concern (SVHC) in concentrations greater than or equal to 0.1% or those otherwise established under paragraph 6(b) of Article 56. Therefore, it also would not contain substances included in Annex XIV.
Directive 2006/122/EC (Relating to Restrictions on the Marketing and Use of Certain Dangerous Substances and Preparations	This directive is superseded by amendments to Regulation (EC) No. 1907/2006 Annex XVII (Restrictions on the Manufacture, placing on the market and use of certain dangerous substances, preparations and articles). Perfluorooctane sulfonates & salts &

PRODUCT REGULATORY INFORMATION SHEET

EASTMAN

Print Date: 8/6/2019

Version: 07/18/2019 (00,001.00,021)

71092326

Eastar(TM) Copolyester GN001

(perfluorooctane Sulfonates), as amended	esters (PFOS) are listed with a restriction of <0.005%. We do not analyse this product for these substances. We do not add these substances to the end product, and we do not expect that these substances will be formed during manufacturing or under normal handling, storage and use conditions. Based on our knowledge of our raw materials and manufacturing processes, we have no reason to expect that these substances would be present.
Regulation 1169/2011, Annex II (Substances or products causing allergies or intolerances)	In regard to the presence of allergens and products which cause intolerances, this product is not manufactured with the following listed substances or products thereof: cereals containing gluten; crustaceans; eggs; fish; peanuts; soybeans, milk, nuts (almonds, hazelnuts, walnuts, cashews, pecans, Brazil nuts, pistachio nuts, macademia or Queensland nuts), celery, mustard, sesame seeds, sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre in terms of the total SO ₂ , lupin, molluscs.
Directive 94/62/EC, Packaging and Packaging Waste (amended by 2004/12/EC, 2005/20/EC, and Regulation (EC) No 219/2009)	This statement covers the following heavy metals (or their compounds): Cadmium (Cd), Hexavalent chromium (Cr (6+)), Lead (Pb), Mercury (Hg). Based on our knowledge of the raw materials and the manufacturing process, it is unlikely that any of these elements would be present in this product in concentrations exceeding the legislation limits.
Directive 2001/18/EC and Regulations 1829/2003 and 1830/2003 (Genetically Modified Organisms), as amended	Based on our knowledge of the raw materials or based on supplier information, this product is considered not genetically modified or not derived from a genetically modified organism as defined in these regulations.
Directive 2005/84/EC, Commission Decision 1999/815/EC (Phthalates), as amended	This Directive states that certain phthalates shall not be used as substances or as constituents of preparations, at concentrations of greater than 0.1% by mass of the plasticised material, in toys and childcare articles. The listed phthalates are as follows: bis(2-ethylhexyl) phthalate (DEHP); dibutyl phthalate (DBP); benzyl butyl phthalate (BBP); di-iso-nonyl phthalate (DINP); di-isodecyl phthalate (DIDP); di-n-octyl phthalate (DNOP). We do not analyse this product for these phthalates. However, these substances are not used as a raw material, nor are they added to the manufacturing process or the end product.
Regulation (EC) No. 1005/2009 on Substances that Deplete the Ozone Layer	Eastman Chemical Company does not analyse this product for ozone depleting substances (ODS) that are classified as such by this legislation. Based on our knowledge of the raw materials and our manufacturing process, we do not expect the listed substances to be present in our product.
Directive 2000/53/EC (End of Life Vehicles - ELV), as amended	This statement covers the following heavy metals (or their compounds): Cadmium (Cd), Hexavalent chromium (Cr (6+)), Lead (Pb), Mercury (Hg). Based on our knowledge of the raw materials and the manufacturing process, it is unlikely that any of these elements would be present in this product in concentrations exceeding the legislation limits.
Directive 2011/65/EU (Restrictions of Hazardous Substances - RoHS), as amended by Commission Delegated Directive (EU)	To our knowledge, the following substances are not used as raw materials in this product, nor are they added during the production process or the end product. Although we do not routinely analyse our product for these substances, we have no reason to expect that these substances would be present above the stated limits:

PRODUCT REGULATORY INFORMATION SHEET**EASTMAN**

Print Date: 8/6/2019

Version: 07/18/2019 (00,001.00,021)

71092326

Eastar(TM) Copolyester GN001

2015/863	Lead (0,1 %); Mercury (0,1 %); Cadmium (0,01 %); Hexavalent chromium (0,1 %); Polybrominated biphenyls (PBB) (0,1 %); Polybrominated diphenyl ethers (PBDE) (0,1 %); Bis(2-ethylhexyl) phthalate (DEHP) (0,1 %); Butyl benzyl phthalate (BBP) (0,1 %); Dibutyl phthalate (DBP) (0,1 %); Diisobutyl phthalate (DIBP) (0,1 %). Based on a one-time analysis of this product by an independent laboratory, the listed substances were not detected in this product (method detection limit of 5 mg/kg for PBBs or PBDEs and 2 mg/kg for metals). Further information is available from your Eastman representative.
Directive 2003/53/EC (Restricting Nonylphenol and Nonylphenol Ethoxylates), as amended	Eastman Chemical Company does not analyse this product for nonylphenol and nonylphenol ethoxylates. Emulsifiers are not used as a raw material, nor are they added to the manufacturing process or the end product. Therefore, we have no reason to expect that these substances are present.
Regulation 2005/1895/EC (Epoxy Derivatives), as amended	This regulation replaced Directive 2002/16/EC and is applicable to plastics, surface coatings and adhesives. The following substances are prohibited: 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether (or BADGE) (CAS No 001675-54-3), [and derivatives BADGE.H ₂ O, BADGE.HCl; BADGE.2HCl; BADGE.H ₂ O.HCl]; bis(hydroxyphenyl)methane bis(2,3-epoxypropyl)ethers (or BFDGE (CAS No 039817-09-9) [and derivatives BFDGE.H ₂ O, BFDGE.HCl; BFDGE.2HCl; BFDGE.H ₂ O.HCl]; other novolac glycidyl ethers (NOGE). These substances are not used in the manufacture of this product. Eastman does not conduct specific analysis for these substances.
Regulation (EU) No. 1272/2008 on the classification, labeling, and packaging of substances	Consult the SDS for applicable classifications.
Regulation (EU) No. 528/2012 on Biocidal Products (repealed and replaced Directive 98/8/EC)	This regulation entered into force on September 1, 2013 with a transitional time for certain provisions. To discuss in detail the applicable requirements for this product, contact your Eastman representative. (Reference: https://ec.europa.eu/health/biocides/overview_en).
Regulation on Polycyclic Aromatic Hydrocarbons (PAHs)	Regulation (EC) No 208/2005 and Regulation (EC) No 466/2001 are obsolete. Regulation (EC) No. 1272/2013 amended Entry 50 of Annex XVII to REACH Regulation (EC) No. 1907/2006 on the restrictions of polycyclic aromatic hydrocarbons (PAHs). In addition, Regulation 2015/326/EU also amended Regulation (EC) No 1907/2006. Following are the listed PAHs: (1) Benzo[a]pyrene (BaP) (CAS No 50-32-8); (2) Benzo[e]pyrene (BeP) (CAS No 192-97-2); (3) Benzo[a]anthracene (BaA) (CAS No 56-55-3); (4) Chrysen (CHR) (CAS No 218-01-9); (5) Benzo[b]fluoranthene (BbFA) (CAS No 205-99-2); (6) Benzo[j]fluoranthene (BjFA) (CAS No 205-82-3); (7) Benzo[k]fluoranthene (BkFA) (CAS No 207-08-9); (8) Dibenzo[a,h]anthracene (DBAhA) (CAS No 53-70-3). These substances are not used as a raw material, nor are they added to the manufacturing process or the end product. We have no reason

PRODUCT REGULATORY INFORMATION SHEET**EASTMAN**

Print Date: 8/6/2019

Version: 07/18/2019 (00,001.00,021)

71092326

Eastar(TM) Copolyester GN001

	to expect that the listed substances would be present in this product.
This product is not considered to be a volatile organic compound (VOC), nor does it contain a VOC, as defined in Article 5 of EU Directive 2004/42/EC (an organic substance with an initial boiling point less than or equal to 250 °C at a standard pressure of 101,3 kPa). Also, it is not considered a VOC, nor does it contain one, as defined in the Swiss ordinance on incentive taxes on volatile organic compounds (OVOC): "volatile organic compounds (VOC) are organic compounds with a vapour pressure of at least 0.1 mbar at 20°C or a boiling point of maximum 240°C at 1013.25 mbar".	
North America Region	
United States	
21 CFR 189.5; 21 CFR 700.27 (BSE/TSE)	Based on our knowledge of the raw materials and processes used in the manufacture of this product, we have no reason to expect that bovine-derived materials are present in this product.
US CSG (CONEG)	This statement covers the following heavy metals (or their compounds): Cadmium (Cd), Hexavalent chromium (Cr (6+)), Lead (Pb), Mercury (Hg). These metals are not intentionally added to this product as supplied by Eastman Chemical Company. Based on testing of representative samples of this product, it is unlikely that any of these elements would be present in this product in concentrations exceeding the legislation limits.
GMO (Genetically Modified Organisms)	This product is not derived from plant sources and, therefore, is not produced using genetically modified organisms (GMOs) or recombinant DNA technology.
40 CFR Part 82 Subpart E, ODS	Eastman Chemical Company products are neither manufactured with nor contain any "ozone depleting substances" listed by the U.S. Environmental Protection Agency for the protection of stratospheric ozone (Title VI of the Clean Air Act, and 40 CFR Part 82, Subparts A and E, including chlorofluorocarbons, halons, carbon tetrachloride, methyl chloroform, hydrochlorofluorocarbons.) However, based on our knowledge of the raw materials and manufacturing process, these substances may be present in trace quantities in our products.
Kosher Status	Eastman has not sought or received kosher certification for this product, nor do we currently manufacture it under rabbinical supervision. However, Eastman does not use any animal-derived raw materials or additives in the production of this product. Accordingly, it is our understanding that the kosher status of foods

PRODUCT REGULATORY INFORMATION SHEET

EASTMAN

Print Date: 8/6/2019

Version: 07/18/2019 (00,001.00,021)

71092326

Eastar(TM) Copolyester GN001

	packaged in containers made from this product, as supplied from our manufacturing sites, is not adversely affected by the use of this polymer.
Consumer Product Safety Improvement Act of 2008	We have not analyzed this product for the following substances: Lead, Di-iso-nonyl phthalate (DINP); Di(2-ethylhexyl) phthalate (DEHP); Dibutyl phthalate (DBP); Di-iso-decyl phthalate (DIDP); Di-n-octyl phthalate (DNOP); Butylbenzyl phthalate (BBP). However, these substances are not used as a raw material, nor are they added to the manufacturing process or the end product. We have no reason to expect that these substances would be present above the threshold levels in this legislation (>100 ppm for lead; and concentrations >0.1% for the listed phthalates).

Users should consider this regulatory information provided only as a supplement to other information, such as the Material Safety Data Sheet. It is the responsibility of our customers to determine that their use of our product(s) is safe, lawful, and technically suitable in their intended applications. Because of possible changes in the laws and regulations, as well as possible changes in our products, we cannot guarantee that the status of this product will remain unchanged. Therefore, we recommend that customers continuing to use this product verify its status periodically. For additional information about this product, please contact your Eastman representative or visit our web site at www.eastman.com.

Neither Eastman Chemical Company nor its marketing affiliates shall be responsible for the use of this information, or of any product, method or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability or fitness of any product, and nothing herein waives any of the Seller's conditions of sale.