

PRODUCT REGULATORY INFORMATION SHEET

Print Date: 11/25/2014

Version: 07/24/2014 (00,001.00,019)

71070313

Eastman Tritan(TM) Copolyester TX2001

PRODUCT NAME	
Eastman Tritan(TM) Copolyester TX2001	
COMPANY INFORMATION	
Address	Eastman Chemical Company P. O. Box 511 Kingsport, TN 37662
FOOD CONTACT / FOOD ADDITIVE INFORMATION	
<i>Asia Pacific Region</i>	
China	This polymer is listed as No. 94 (CAS No. 261716-94-3) on the official "List of 107 Resin Types Used for Food Packaging Materials" published by the Chinese Ministry of Health in November 2011. This product contains a proprietary additive, and a petition was approved by the China National Health and Family Commission on January 6, 2013, to permit use of the additive for all food-contact plastics approved in China, which includes Tritan polymers.
Japan	A JHOSPA certificate is available upon request.
<i>EMEA Region</i>	
<i>European Union</i>	
Declaration of Compliance for Food Contact: Commission Regulation (EU) No. 10/2011 (replaced Directive 2002/72/EC and amendments)	This product is a polymer of dimethyl terephthalate (FCM 288, Ref No. 24970, listed as terephthalic acid, dimethyl ester), 1,4-cyclohexanedimethanol (FCM 210, Ref No. 13390, listed as 1,4-bis(hydroxymethyl) cyclohexane), and 2,2,4,4-tetramethylcyclobutane-1,3-diol (TMCD)(FCM 881, Ref No. 25187), and a proprietary additive. The additive and the monomers listed above, except TMCD, are listed without specific migration limits. TMCD has a specific migration limit of 5 mg/kg of food for repeated use articles for long term storage at room temperature or below and hotfill conditions. Specific migration of TMCD from a representative copolymer was tested using a protocol for repeated use applications under test conditions of both 10 days at 40°C and 2 hours at 100°C at a ratio of 10 dm ² per 1 kg food using 3% acetic acid, 10% ethanol and olive oil as food simulants. Under these conditions, no migration of TMCD was detected with a detection limit of 25 micrograms/kg for aqueous food simulants and 1.3 microgram/kg for olive oil. Regarding the dual use additives provision in the Regulation, 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 the Framework Regulation (EC) 1935/2004 on materials and articles intended to come into contact with food. This product is produced under good manufacturing practices in compliance with EU Regulation 2023/2006.
<i>North America Region</i>	
<i>United States</i>	
Food Law Compliance	Under regulations administered by the U.S. Food and Drug

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	<p>Administration (FDA), this product, as supplied by Eastman Chemical Company, may lawfully be used on the basis of 21 CFR 174.5(d)(5) as a component in the manufacture of repeated use food-contact articles as described in Food Contact Notification No. 1041, which replaces FCN No. 729. FCN No. 1041 replaces FCN No. 729, and product as supplied by Eastman under FCN No. 729 may lawfully be used under FCN No. 1041. The finished food contact article containing this polymer is intended to contact all types of food at temperatures up to and including 100°C (for definitions of food types, refer to the Food Contact Substances website at http://www.fda.gov/food/ingredientspackaginglabeling/packagingfc/s/foodtypesconditionsofuse/ucm109358.htm to access the Food Types and Conditions of Use for Food Contact Substances Tables). This formulation contains a proprietary additive which complies with the regulations for indirect food additives published by the U.S. Food and Drug Administration.</p>
Other Information	<p>This product is manufactured, stored, handled and transported under conditions adhering to 21 CFR 174.5 on general provisions applicable to indirect food additives (i.e., current good manufacturing practices for food contact substances).</p>

OTHER APPLICABLE REGULATIONS

EMEA Region

European Union

Regulation (EC) No. 1907/2006 on the Registration, Evaluation and Authorisation of Chemicals (REACH)	Eastman confirms its compliance with REACH. Where relevant and required, all substances manufactured in and imported into the European Union by Eastman have been duly registered and/or pre-registered. Polymers are exempt from registration under REACH, however all monomers and additives are pre-registered and registered where relevant, such that our polymer products are REACH compliant. For further information, refer to our website: www.eastman.com/reach .
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 June 2014 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. For further information, refer to our website: www.eastman.com/reach .
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). This product complies with the heavy metal content limits of this legislation.
Substances of Animal Origin Regulation 999/2001, as amended	Based on our knowledge of the raw materials and processes used in the manufacture of this product, we have no reason to expect that animal-derived or bovine-derived materials are present in this product. This product is manufactured using non-animal-derived raw materials. Additionally, this product does not contain, and is not derived from, specified risk materials as defined in EU

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	<p>regulations. This product is not derived from any constituent of animal origin, including ruminants, excluding milk or milk derivatives and derivatives of wool and hair of ruminants. The equipment used in the manufacturing process of the product did not come into contact with a substance derived from animal origin.</p>
<p>Directive 2005/84/EC, Commission Decision 1999/815/EC (Phthalates), as amended</p>	<p>This product does not contain phthalate esters used as plasticizers (such as di-2-ethylhexyl phthalate(DEHP), diisononyl phthalate (DINP), dibutyl phthalate (DBP), di-n-octyl phthalate (DNOP), benzylbutyl phthalate(BBP), diisodecyl phthalate (DIDP)). The term "phthalates" refers to diesters of phthalic acid (also known as ortho-phthalic acid or 1,2-benzenedicarboxylic acid) that are used to make materials, such as vinyl, more flexible. These are the substances which are the subject of specific regulations and are banned or proposed to be banned in certain consumer products. Phthalate esters are not used in the manufacture of this product. However, there is potential for confusion resulting from the use of dimethyl terephthalate as a monomer to manufacture this polymer. Terephthalates have different physical, chemical, and toxicological properties than the ortho-phthalate esters, and we are not aware of any scientific studies linking terephthalates with endocrine effects. More importantly, dimethyl terephthalate is reacted and becomes part of a high molecular weight polymer. In contrast, low molecular weight plasticizers, such as ortho-phthalates, can be used at high loadings and have a high potential for migration when the plasticized polymer is used in contact with fatty foods.</p>
<p>Regulation (EC) No. 1005/2009 on Substances that Deplete the Ozone Layer</p>	<p>Eastman Chemical 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.</p>
<p>Directive 2000/53/EC (End of Life Vehicles - ELV), as amended</p>	<p>This statement covers the following heavy metals (or their compounds): Cadmium (Cd), Hexavalent chromium (Cr (6+)), Lead (Pb), Mercury (Hg). This product complies with the heavy metal content limits of this legislation.</p>
<p>Directive 2011/65/EU (Recast of 2002/95/EC (Restrictions of Hazardous Substances - RoHS)), as amended</p>	<p>To our knowledge, lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE), including decabromodiphenyl ether are not used as raw materials in this product, nor are they added during the production process or the end product. 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.</p>
<p>Directive 2003/53/EC (Restricting Nonylphenol and Nonylphenol Ethoxylates), as amended</p>	<p>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.</p>
<p>Regulation 2005/1895/EC (Epoxy Derivatives), as amended</p>	<p>Eastman Chemical Company does not analyse this product for the following substances: bis(hydroxyphenyl)methane bis (2,3-epoxypropyl) ethers (BFDGE) [and derivatives BFDGEH₂O,</p>

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	<p>BFDGEHCl; BFDGE2HCl; BFDGEH2O.HCl]; 2,2-bis(4-hydroxyphenyl) propane bis(2,3-epoxypropyl) ether (BADGE) [and derivatives BADGEH2O, BADGEHCl; BADGE2HCl; BADGEH2O.HCl]; Novolac glycidyl ethers (NOGE). However, these substances are not used as a raw material, nor are they added to the manufacturing process or the end product. This product complies with 2005/1895/EC, and amendments, which replaced Directive 2002/16/EC.</p>
Regulation (EU) No. 1272/2008 (CMR), as amended	<p>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 this regulation or its amendments.</p>
Regulation (EU) No. 528/2012 on Biocidal Products (repealed and replaced Directive 98/8/EC)	<p>This product contains no biocide and is not subject to the provisions of this regulation.</p>
EN71-3 (Safety of Toys - Specification for Migration of Certain Elements); Directive 2009/48/EC (replaced 88/378/EEC)	<p>This statement covers the following elements listed in Directive 2009/48/EC, Annex II (Particular Safety Requirements), Part III (Chemical Properties) : Aluminum (Al); Antimony (Sb), Arsenic (As), Barium (Ba), Boron (B), Cadmium (Cd), Chromium (Cr III), Chromium (Cr VI), Cobalt (Co), Copper (Cu), Lead (Pb), Manganese (Mn), Mercury (Hg), Nickel (Ni), Selenium (Se), Strontium (Sr), Tin (Sn), organic Tin, Zinc (Zn). We have not specifically analyzed this product for the presence of these substances. Based on our knowledge of the raw materials and the manufacturing process, it is unlikely that any of these elements should migrate from this product in amounts exceeding the listed limits.</p>
WGK Identification Number:	<p>WGK 1: slightly water-endangering.</p>
EU Regulation 208/2005 (Polycyclic Aromatic Hydrocarbons), as amended	<p>Eastman Chemical Company does not analyse this product for the following polycyclic aromatic hydrocarbons (PAH) defined in this amendment or Commission Regulation (EC) No 466/2001: Benzo[a]anthracene; Benzo[b]fluoranthene; Benzo[j]fluoranthene; Benzo[k]fluoranthene; Benzo[ghi]perylene; Benzo[a]pyrene; Chrysene; Cyclopenta[c,d]pyrene; Dibenzo[a,h]anthracene; Dibenzo[a,e]pyrene; Dibenzo[a,h]pyrene; Dibenzo[a,i]pyrene; Dibenzo[a,l]pyrene; Indeno[1,2,3-cd]pyrene; 5-methylchrysene, Benzo[c]fluorene. 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 the listed substances would be present in this product.</p>
Directive 2004/42/EC (Volatile Organic Compounds), as amended	<p>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".</p>
<p>North America Region</p>	
<p>United States</p>	

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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. We have not specifically analyzed this product for the presence of these substances. 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.
California Proposition 65	Eastman has not specifically analyzed this product for the purpose of identifying the presence of the substances listed in Proposition 65. Based on our knowledge of the raw materials and manufacturing process, we have no reason to expect that this product would contain substances at levels which would require warning as required by Proposition 65. Because Eastman has limited knowledge of your manufacturing processes, products or the circumstances under which potential exposures may arise, Eastman is unable to certify that when our product is used to manufacture your products, no individuals using such products in California will be exposed to any Proposition 65 chemicals in amounts that require a Proposition 65 warning. For this reason, your company must make its own determination that Eastman products are safe, lawful, and technically suitable for use in your company's intended applications. If you have general questions regarding the chemical composition or properties of specific products, please refer to the Material Safety Data Sheet.
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.
40 CFR Part 60	Eastman has performed no specific testing of this product for VOC content. Based on the physical properties of this material, the VOC content is expected to be negligible when tested using EPA Method 24.
CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302, Table 302.4)	This product or its components are not listed.
National Sanitation Foundation (NSF)	This product is certified to ANSI/NSF Standard 51. This product is certified to ANSI/NSF Standard 61.
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

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	<p>raw materials or additives in the production of this product. Accordingly, it is our understanding that the kosher status of foods packaged in containers made from this product, as supplied from our manufacturing sites, is not adversely affected by the use of this polymer.</p>
State Legislation on Bisphenol A (BPA)	<p>Connecticut HB 6572; Washington State SB 6248: Based on our current knowledge of the raw materials and manufacturing processes for this product, we have no reason to expect that this product contains Bisphenol-A as supplied by Eastman. Analysis by a third-party laboratory did not detect BPA in representative samples of our Tritan copolyesters (limit of detection 5 ppm). Contact your Eastman representative for additional information.</p>
Washington Department of Ecology Chemicals of High Concern to Children - Children's Safe Product Act (CSPA)	<p>We do not specifically analyze our product for the presence of the CHCC-listed substances. Based on our knowledge of the raw materials and manufacturing process for our product, the substances listed as of the date of this document by the Children's Safe Products Act as CHCCs at website http://www.ecy.wa.gov/programs/swfa/cspa/chcc.html are not expected to be present in this product in the form supplied by Eastman Chemical Company. Consumer Product Safety Improvement Act of 2008</p>

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 website 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.