

PRODUCT REGULATORY INFORMATION SHEET

Print Date: 06/14/12

Version: 12/21/2011 (00002.00015)

71071068

Eastman Tritan(TM) Copolyester TX1800

EASTMAN

| PRODUCT NAME | |
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| Eastman Tritan(TM) Copolyester TX1800 | |
| COMPANY INFORMATION | |
| Address | Eastman Chemical Company P. O. Box 511 Kingsport, TN 37662 |
| FOOD CONTACT / FOOD ADDITIVE INFORMATION | |
| Asia Pacific Region | |
| Japan | A JHOSPA certificate is available upon request. |
| EMEA Region | |
| European Union | |
| Declaration of Compliance for Food Contact: Commission Regulation (EU) No. 10/2011 (replaced Directive 2002/72/EC and amendments) | <p>This product is a polymer of dimethyl terephthalate (Ref No. 24970, listed as terephthalic acid, dimethyl ester), 1,4-cyclohexanedimethanol (Ref No. 13390, listed as 1,4-bis(hydroxymethyl) cyclohexane), and 2,2,4,4-tetramethylcyclobutane-1,3-diol (TMCD)(Ref No. 25187). 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 dm² 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.</p> <p>A proprietary substance used as a branching agent is also listed with a specific migration limit, but the limit will not be exceeded based on the low level of use and how it is reacted into the polymer. Disclosure of the specific identity of this substance to customers or testing labs will require an appropriate agreement to protect confidential information. Regarding the dual use additives provision in EU Directive 2004/19/EC, 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 manufacturing practices in compliance with EU Regulation 2023/2006.</p> |
| North America Region | |
| Canada | |
| HPFB - CFIA | For a copy of the Health Products Food Branch Letter of No Objection, contact your Eastman customer service representative. |
| United States | |
| 21 CFR 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. 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/FoodIngredientsPackaging/FoodContactSubstancesFCS/default.htm to access the Food Types and Conditions of Use for Food Contact Substances Tables). In addition, the general provisions for indirect food additives in 21 CFR 174.5 are applicable to the use of this product.</p> |
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OTHER APPLICABLE REGULATIONS

EMEA Region

European Union

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| 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 19 December 2011 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 2006/122/EC (Relating to Restrictions on the Marketing and Use of Certain Dangerous Substances and Preparations (perfluorooctane Sulfonates), as amended | We do not analyse this product for the perfluorooctane sulfonates (PFOS) and related compounds. 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. |
| Directive 94/62/EC (Packaging and Packaging Waste), as amended | 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. |

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| 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 | 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 in some countries and which a number of state and municipal governments in the United States have banned or proposed to ban 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. |
| Regulation (EC) No. 2037/2000 on Substances that Deplete the Ozone Layer | Eastman Chemical does not analyse this product for ozone depleting substances (ODS) that are classified as such by this legislation (including chlorofluorocarbons, other fully halogenated chlorofluorocarbons, halons, carbon tetrachloride, 1,1,1-trichloroethane, methyl bromide, hydrobromofluorocarbons, and hydrochlorofluorocarbons). Based on our knowledge of the raw materials and our manufacturing process, we do not expect the listed substances to be present in our products. |
| Directive 2011/65/EU (Recast of 2002/95/EC (Restrictions of Hazardous Substances - RoHS)), as amended | 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. |
| 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. |
| Directive 2005/1895/EC (Epoxy Derivatives), as amended | Eastman Chemical Company does not analyse this product for the following substances: bis(hydroxyphenyl)methane bis (2,3-epoxypropyl) ethers (BFDGE) [and derivatives BFDGEH ₂ O, BFDGEHCl; BFDGE ₂ HCl; BFDGEH ₂ O.HCl]; 2,2-bis(4-hydroxyphenyl) propane bis(2,3-epoxypropyl) ether (BADGE) [and derivatives BADGEH ₂ O, BADGEHCl; BADGE ₂ HCl]; |

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| | 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 EU Directive 2002/16/EC. |
| Directive 98/8/EC (Biocides), as amended; Commission Decision 2009/251/EC (Dimethylfumurate) | Eastman Chemical Company does not analyse this product for the listed biocides. However, the listed biocides 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 would be present. |
| Directive 2009/48/EC (replaced 88/378/EEC (Toy Safety)), as amended | This statement covers the following elements listed in Annex II (Particular Safety Requirements), Part III (Chemical Properties) : Aluminum (Al); Antimony (Sb), Arsenic (As), Barium (Ba), Boron (Bo), 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). This product complies with the heavy metal content limits of this legislation. |
| WGK Identification Number: | not available |
| EU Regulation 208/2005 (Polycyclic Aromatic Hydrocarbons), as amended | 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. |
| Directive 2004/42/EC (Volatile Organic Compounds), as amended | 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. We have not specifically analyzed this product for the presence of these substances. Based on our knowledge of the raw materials |

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| | <p>and the manufacturing process, it is unlikely that any of these elements would be present in this product in concentrations exceeding the legislation limits.</p> |
| California Proposition 65 | <p>Eastman has not specifically analyzed our product for 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.</p> |
| GMO (Genetically Modified Organisms) | <p>This product is not derived from plant sources and, therefore, is not produced using genetically modified organisms (GMOs) or recombinant DNA technology.</p> |
| 40 CFR Part 82 Subpart E, ODS | <p>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.</p> |
| 40 CFR Part 60, VOC | <p>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.</p> |
| CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302, Table 302.4) | <p>This product or its components are not listed.</p> |
| National Sanitation Foundation (NSF) | <p>This product is certified to ANSI/NSF Standard 51.</p> |
| Consumer Product Safety Improvement Act of 2008 | <p>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).</p> |

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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.