



Effective Date: 02/10/2017

REGULATORY INFORMATION PACKET
GBFN (Glass-Filled Black Nylon)
BLACK NYLON POLYMER

Product Manufacturer

This product is manufactured by Ravago Manuf. Americas Manchester, Tennessee 37355 USA.

Manufacturing Facility Certifications

ISO 9001:2008 and EU Directives 2003/11/EC, 2005/618/EC and 2015/863-ROHS.

Chemical Inventories

Please see SDS for chemical inventory listings.

Food Contact Status

Based on the information available from our raw material suppliers, the material listed above contains raw materials that do not comply with FDA requirements FDA 21 CFR 177.1500 (Nylon polymers). The final product has not gone through FDA testing.

Food Allergens

No information available.

US Pharmacopeia (USP)

No information available.

European Pharmacopoeia (EPHc)

No information available.

Animal Derived Components (BSE/TSE)

Based on the information available from our raw material supplier; this material does not intentionally contain substances from animal derivatives.

Plant Derived Components

Not applicable.

Kosher/Halal

Not applicable, food only.



REACH 173 Substances (January 12, 2017)

Substances of Very High Concern, based on the information available to us from our suppliers, we do not expect any of these substances to be intentionally present in an amount of more than 0.1% (w/w) in any of our products as published on the ECHA website January 12, 2017.

EU Directive 2011/65/EC Restriction of Hazardous Substances (RoHS)

This product does not contain as intentional ingredients any of the ten restricted chemicals above their threshold limits: lead and its compounds, cadmium and its compounds, mercury and its compounds, hexavalent chromium compounds, polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs), bis(2-ethylhexyl) phthalate (DEHP), benzyl butyl phthalate (BBP), dibutyl phthalate (DBP), and diisobutyl phthalate (DIBP).

EU-Directive 2003/11/EC:

Product is in compliance with the restriction of Tetrabromodiphenylether, Pentabromodiphenylether, Hexabromodiphenylether, Heptabromodiphenylether, Octabromodiphenylether, Nonabromodiphenylether, and Decabromodiphenylether.

EU-Directive 2015/863-ROHS:

This new directive amends Annex II to EU ROHS 2 (Directive 2011/65/EU). This directive regulates the restriction of the use of certain Hazardous Substances in electrical and electronic equipment. The recent amendment added four phthalates as restricted substances to the list in Annex II bringing the total number of substances regulated under this legislation to ten.

CHINA ROHS 2:

This directive regulates the restriction of the use of certain Hazardous Substances in electrical and electronic products.

This product does not contain any of these ten restricted chemicals as intentional ingredients above their threshold limits:

- Lead and its compounds
- Cadmium and its compounds
- Mercury and its compounds
- Hexavalent chromium compounds
- Polybrominated biphenyls (PBBs)
- Polybrominated diphenyl ethers (PBDEs)
- Bis(2-ethylhexyl) phthalate (DEHP)
- Benzyl butyl phthalate (BBP)
- Dibutyl phthalate (DBP)
- Diisobutyl phthalate (DIBP)

Heavy Metals (ELV Directive 2000/53/EC)

Coalition of Northeastern Governors (CONEG)

Based on the information available from our raw material suppliers; the materials listed above do not intentionally contain lead, cadmium, mercury, or hexavalent chromium; (5) polybrominated biphenyls (PBBs); (6) polybrominated diphenyl ethers (PBDEs); (7) bis(2-ethylhexyl) phthalate (DEHP); (8) benzyl butyl phthalate (BBP); (9) dibutyl phthalate (DBP); (10) diisobutyl phthalate (DIBP). We do not specifically run any analysis on incoming raw materials or end products to measure for the presence of these substances.



European Directive (94/62/EC) Packaging and Packaging Waste

Not applicable.

EU Directive 2012/19/EU Waste Electrical & Electronic Equipment (WEEE)

EU-Decision 2005/618/EC:

This material complies with the EU-Decision 2005/618/EC directive in having established maximum concentration levels for certain hazardous substances.

European Regulation (EC) No. 1895/2005 (BADGE, BFDGE, NOGE)

Not applicable.

California Proposition 65

(Safe Drinking Water and Toxic Enforcement Act of 1986)

This material does not intentionally contain chemicals listed on the Proposition 65 list.

Conflict Materials

(Dodd-Frank Wall Street Reform and Consumer Protection Act)

The supplier of this product is not a SEC reporting company and is not subject to the conflict minerals reporting rule, but as part of their ongoing commitment to best service us, they advise us that they have made conflict minerals inquiries to the manufacturers of this product and have acknowledged undertaking due diligence on all manufactured products advising us that this product does not contain conflict minerals as defined in the applicable SEC rules. No additional manufacturing processes have been performed on this product and no other analyses are conducted to determine the existence of any conflict minerals.

Ozone Depleting Chemicals (ODCs)

This product does not intentionally contain Ozone Depleting Substances as referenced under the EPA Clean Air Act Section 602 and the Montreal Protocol on Substances that deplete the Ozone Layer based on the information available from our raw material suppliers. We do not specifically run any analysis on incoming raw materials or end products to measure for the presence of these substances.

EU-Directive 2006/122/EC-ROHS:

Restriction of the use of perfluorooctanoic acid and perfluorooctane sulfates. This product does not intentionally contain perfluorinated substances including Perfluoro-octyl sulphonates (PFOS), Perfluoro-octanoic acid (PFOA), Perfluoro-alkyl sulphonates (PFAS), or Perfluoro-butyl sulphonate (PFBS).

Materials from Genetically Modified Organisms

This product is not formulated with or have any intentionally added GMO's in the material.



Additional Substance Information

This product is not intentionally manufactured or formulated with the following substances or compounds; however, we do not analyze for these substances or compounds.

- 2-Mercaptobenzothiazole (MBT)
- Aflatoxin-like compounds
- Azoxy compounds
- Bis(2-ethylhexyl) Adipate (DEHA)
- Bisphenol compounds, incl. but not limited to: BPA, BPB, BPC, BPE, BPF, BPS, and BPZ
- Butylated Hydroxyanisole (BHA)
- Butylated Hydroxytoluene (BHT)
- Dioxins and similar compounds
- Endocrine Disruptors (proven by the industry)
- Epoxy Resin
- Isocyanate
- Melamine
- Natural rubber latex, dry natural rubber, or synthetic latex
- Nitroso compounds
- Nitrosamines
- Novolac Glycidyl Ethers (NOGE)
- Organic phosphates
- Parabens
- Perfluorooctane Sulfonate (PFOS)
- Plasticizers
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Terphenyls (PBTs)
- Polychlorinated Biphenyls (PCBs)
- Polycyclic aromatic hydrocarbon (PAH)
- Polyurethane
- Polyvinyl Chloride (PVC)
- Polyvinylidene Chloride (PVDC)
- Tris-nonylphenol Phosphite (TNPP)

Sterilization Methods

- | | |
|--------------|---|
| E-beam/Gamma | Not Applicable. |
| EtO | Not Applicable. |
| Autoclave | May swell slightly due to water absorption. |



Shelf Life and Expiration Date

Eldon James has tight controls on inventory, so finished products are manufactured and sold quickly. Consequently, raw materials are stored for a relatively short time before use in the manufacturing process. Eldon James cannot commit to a shelf life on products, but we stand by the quality and use of new raw materials. Resin manufacturers usually make no commitment on shelf life. Eldon James does not make any claims regarding Expiration Date because our customers use our products in many different applications and conditions. Eldon James cannot make any assessment or claims regarding expiration. Each individual condition and application must be tested by the customer to determine the limits of each product, material, and use.

Use of this Regulatory Information Data Sheet

The information provided as requested is intended to be used for informational purposes only. The information is provided on a without prejudice basis and should not be viewed as giving technical advice, instruction, or otherwise. The information is furnished free of charge and is based on supplier knowledge and understanding. Eldon James Corporation makes no representation or warranty as to the completeness or accuracy of the information contained herein. It is intended for use by persons having technical skill, at their own discretion and risk, who will make their own determination as to its suitability for their purposes prior to use. As with any material, evaluation of any compound under end-use conditions prior to specification is essential. Ultimately, customers must make their own determination that use of this product is safe, lawful, and technically suitable for their intended applications.