

**Hylon® N1033HL****GFBN (Glass-Filled Black Nylon)**

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Effective Date: July 26<sup>th</sup>, 2021

**BLACK NYLON POLYMER****Product Manufacturer**

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

**Manufacturing Facility Certifications**

ISO 9001 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 219 Substances (July 8th, 2021)**

The REACH regulation is written such that the company that imports chemicals into Europe is responsible for compliance. To comply, REACH requires registration of the monomers and other relevant substances used in the polymer, if they are part of the polymer for more than 0.1 % and produced/imported in a volume of 1 ton or more per year.

Although our supplier does not directly import chemicals into Europe, as such they cannot register chemicals under REACH. This material does not intentionally contain any additives or any of the referenced materials at >0.1% and is not manufactured or formulated with any of the 201 Substances identified as SVHCs included in Annex XIV published on the ECHA website 16<sup>th</sup> of July 2019 that would be subject to or would require reporting under this regulation.

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### EU Directive 2011/65/EC Restriction of Hazardous Substances (RoHS 3)

This product does not contain as intentional ingredients any of the ten restricted chemicals above their threshold limits per the EU Directive 2015/863-ROHS amending Annex II to EU ROHS 2 (Directive 2011/65/EU: lead, cadmium, mercury, hexavalent chromium and their 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 RoHS3 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.

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**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

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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.