



Effective Date: 01/19/2017

REGULATORY INFORMATION PACKET

Hylon[®] N1000STHL

BLACK NYLON POLYMER

Product Manufacturer

This product is manufactured by Ravago Manufacturing in Manchester, TN U.S.A.

Manufacturing Facility Certifications

ISO 9001:2008 and ISO/IEC 17025:2005.

Chemical Inventories

Please see SDS for chemical inventory listings.

Food Contact Status

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

Animal Derived Components (BSE/TSE)

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

REACH 173 Substances (January 12, 2017)

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 the supplier does not directly import chemicals into Europe, as such they cannot register chemicals under REACH, this material does not contain as intentional additives or any of the referenced materials at >0.1%. and is not manufactured or formulated with any of the Substances of Very High Concern (SVHC) as per the candidate list that was current as of the effective date of this regulatory datasheet that would require reporting under this regulation.

REACH and its implications for polymers / polymer preparations

Please also note that the polymeric end products as distributed by the supplier are in most cases “preparations”. Under REACH, preparations do not need to be registered separately, only the substances (monomers, additives...) on their own are subject to registration obligations. As such, polymers are exempted from registration requirements under REACH.



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

This product (all grades and colors) do not contain as intentional ingredients any of the ten restricted chemicals above their threshold limits: (1) lead and its compounds; (2) cadmium and its compounds; (3) mercury and its compounds; (4) hexavalent chromium compounds; (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).

CHINA ROHS 2:

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

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.

EU-Directive 2003/11/EC:

Restriction of Tetrabromodiphenylether, Pentabromodiphenylether, Hexabromodiphenylether, Heptabromodiphenylether, Octabromodiphenylether, Nonabromodiphenylether, and Decabromodiphenylether.

EU-Decision 2005/618/EC:

Establishing maximum concentration levels for certain hazardous substances.

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.

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

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.

California Proposition 65

(Safe Drinking Water and Toxic Enforcement Act of 1986)

Based on the information available from our raw material suppliers; this product does not intentionally contain chemicals on the Proposition 65 list.



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

The supplier 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 their customers, have advised us that they have made conflict minerals inquiries to the manufacturers of the products distributed. The suppliers have acknowledged undertaking due diligence on all manufactured products distributed and have advised that the products distributed do not contain conflict minerals (as defined in the applicable SEC rules).

Ozone Depleting Chemicals (ODCs)

This material 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.

Phthalates

Based on the information available from our raw material suppliers; the materials listed above do not intentionally contain Dioctyl phthalate/Di (2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Benzyl butyl phthalate (BBP), Diisononyl phthalate (DINP), Diisodecyl phthalate (DIDP), Di-n-octyl phthalate (DNOP), Di-n-hexyl phthalate (DNHP), Diisobutyl phthalate (DIBP).

Materials from Genetically Modified Organisms

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

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
- Aldehydes
- 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
- Formaldehyde
- Halogenated (Brominated or chlorinated) or phosphorous based flame retardants
- Isocyanate
- Melamine
- Natural rubber latex, dry natural rubber, or synthetic latex



Nitroso compounds
Nitrosamines
Novolac Glycidyl Ethers (NOGE)
Organic phosphates
Parabens
Perfluorooctane Sulfonate (PFOS)
Phthalates / Phthalate esters
Plasticizers
Polybrominated Biphenyls (PBB's)
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.