



January 3, 2018

The Regulatory Status of Pinnacle Polymers Products

Pinnacle's 2000, 3000, 4000 and 8000 series impact copolymer polypropylene products as marketed by Pinnacle Polymers Company, in natural, uncolored pellet form conform to the following:

FDA regulations

These products are covered under US FDA Food Contact Notification 864. As such, this polymer complies with the requirements of CFR Title 21 and can be used in contact with all food types under Conditions of Use A-H.

Condition of Use:

- A. High temperature heat-sterilized (e.g., over 212 °F)
- B. Boiling water sterilized
- C. Hot filled or pasteurized above 150 °F
- D. Hot filled or pasteurized below 150 °F
- E. Room temperature filled and stored (no thermal treatment in the container).
- F. Refrigerated storage (no thermal treatment in the container).
- G. Frozen storage (no thermal treatment in the container).
- H. Frozen or refrigerated storage: Ready-prepared foods intended to be reheated in container at time of use:
 - 1. Aqueous or oil-in-water emulsion of high- or low-fat.
 - 2. Aqueous, high- or low-free oil or fat

It is, however, the responsibility of the customer to determine that the articles fabricated from these products are acceptable for use in their intended applications.

Country of Origin

United States of America

Food Allergens

Products are not formulated to contain, or known to contain, any of the following materials: celery, eggs, fish, milk, mustard, peanuts, sesame seeds, crustacean shellfish, soybeans, sulfites, sulfur dioxide, tree nuts, or wheat. Not known to contain foods listed in EU No 1169/2011.

CONEG – Coalition of Northeastern Governors (Heavy Metals)

In these products the sum of concentration of lead, mercury, cadmium and hexavalent chromium is less than 100 ppm by weight.

ASTM F963 Standard Consumer Safety for Toy Safety

These products are not formulated, or known to contain antimony, arsenic, chromium, selenium, or barium.

California Proposition 65

Pinnacle Polymers makes no warranty of merchantability and there is no warranty that materials shall be fit for any particular application. Users should make their own independent evaluation whether a Pinnacle product is suitable for a specific end-use. No one is authorized to assume any warranties on behalf of Pinnacle without written agreement from an authorized Pinnacle employee. Pinnacle limits its liability to either replacement of non-performing material, or payment not to exceed the cost of the polypropylene supplied plus transportation charges.

These products conform to Prop 65.

Animal Derivatives

Most products are not formulated, or known to contain animal or tallow based materials. However, to obtain information for a specific product grade, please contact Pinnacle.

Kosher

Products are not certified Kosher.

US FDA Drug Master File (DMF)

Information concerning these products is listed in DMF 17038. Contact Pinnacle for a DMF letter of authorization to be sent to the FDA.

Substances of Interest

Products are not formulated, or known to contain these substances. However our products are not tested for these materials:

- Latex, or natural rubber latex
- Bisphenol A (CAS number: 80-05-7)
- Bisphenol F (CAS number 87139-40-0)
- Bisphenol S (CAS number: 80-09-1)
- Asbestos
- ATP (Adenosine Triphosphate)
- Phthalates:
 - Butyl benzyl phthalate (BBP) - (CAS# 85-68-7)
 - Di-isodecyl phthalate (DIDP) - (CAS# 26761-40-0 & 68515-49-1)
 - Di-isononyl phthalate (DINP) - (CAS# 28553-12-0 & 68515-48-0)
 - Di-n-butyl phthalate (DBP) - (CAS# 84-74-2)
 - Di-n-hexyl phthalate (DNHP) - (CAS# 84-75-3)
 - Di-n-octyl phthalate (DNOP) - (CAS# 117-84-0)
 - Di-(2-ethylhexyl) phthalate (DEHP) - (CAS# 117-81-7)
 - Diisobutyl phthalate (DIBP) - (CAS# 84-69-5)
- Polyvinyl Chloride (PVC)
- Chlorofluorocarbons (CFC's) ozone depleting substances
- Elemental Boron or Phosphorus
- 2,4-di-tert-butylphenol or 4-hydroxybenzene
- Cyanuric Acid, Benzophenone, Melamine, Perfluorooctanoic Acid, Silicone
- Solvents: benzene, carbon tetrachloride, 1,2-dichloroethane, 1,1-dichloroethene, or 1,1,1-trichloroethane
- Gluten
- GMO – Genetically Modified Organisms
- Perfluoro Substances
- Ozone Depleting Chemicals (ODCs)
- Phthalates
- Acrylamide
- Aromatic Amines
- Asbestos
- Bisphenol A

Pinnacle Polymers makes no warranty of merchantability and there is no warranty that materials shall be fit for any particular application. Users should make their own independent evaluation whether a Pinnacle product is suitable for a specific end-use. No one is authorized to assume any warranties on behalf of Pinnacle without written agreement from an authorized Pinnacle employee. Pinnacle limits its liability to either replacement of non-performing material, or payment not to exceed the cost of the polypropylene supplied plus transportation charges.

- Nitrosamines
- Dioxins
- Epichlorohydrin
- Nonylphenol
- Organo-tin Compounds
- Fluorocarbons
- Polychlorinated Biphenyls (PCBs)
- Polybrominated Biphenyls (PBBs)
- Polychlorinated Terphenyls (PCTs)
- Polybrominated Diphenyl Ethers (PBDEs)
- Polybrominated Terphenyls (PBTs)
- polybrominated diphenyl ethers (PBDEs)
- Vinyl Chloride
- BADGE, NOGE and BFDGE are not used in the manufacture of or the formulation of this product according to requirement of Regulation N.1895/2005.
- Butylated Hydroxytoluene (BHT) and Butylated Hydroxyanisole (BHA)
- Latex related polymers

Health Canada

Most products have “no objection” letters issued from HPFB. Contact Pinnacle if you need to obtain this information.

RoHS

Products comply with the requirements of Directives 2002/95/EC and 2011/65/EU. Pinnacle products are not known to contain cadmium, lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers.

European Legislation 1935/2004 Framework Directive EC as amended by 89/109/EEC

Products comply with relevant requirements.

2002/72/EC Plastic Materials and Articles intended to come into contact with food stuff amended by Commission Directive and all subsequent amendments including 2008/39/EC

Products comply with relevant requirements.

94/62/EC Packaging and Waste compliant to heavy metals not to exceed 100ppm

Products comply.

2005/1895/EC BADGE

Products comply with relevant requirements.

2008/282/EC Use of recycled plastic material

No recycled materials are used in our products.

10/2011/EC Monomers and Additives

Pinnacle Polymers makes no warranty of merchantability and there is no warranty that materials shall be fit for any particular application. Users should make their own independent evaluation whether a Pinnacle product is suitable for a specific end-use. No one is authorized to assume any warranties on behalf of Pinnacle without written agreement from an authorized Pinnacle employee. Pinnacle limits its liability to either replacement of non-performing material, or payment not to exceed the cost of the polypropylene supplied plus transportation charges.

Products comply with relevant requirements. Contact Pinnacle concerning the identification of any additives having SML requirements for finished articles.

2006/2023/EC Good Manufacturing Practices

Products comply with relevant requirements.

RoHS & WEEE- EU Directive 2002/95/EC

This is to certify that all Pinnacle Polypropylene products are RoHS compliant with the EU Directive 2002/95/EC and 2011/65/EU concerning the prohibited hazardous substances.

DSL (Domestic Substances List) and Chemical Batches

The above Pinnacle products are compliant with Canadian DSL and are not known to contain any of the substances listed in the CCMP 12 Batches of Chemicals.

REACH

We also confirm that the intentional composition of the above mentioned products do not contain any of the SVHC substances appearing in the REACH candidate list most recently updated by ECHA.

Medical Policy

Usage Restrictions: Pinnacle products shall *not* be used in connection with the following applications:

- The manufacture of any US FDA Class III Medical Device, Health Canada Class IV Medical Device or European Union Class III Medical Device.
- The manufacture of implanted medical or surgical devices.
- Life-sustaining medical applications.

Sincerely,



Chang Hoon Song, Ph.D

Technical Manager

Pinnacle Polymers makes no warranty of merchantability and there is no warranty that materials shall be fit for any particular application. Users should make their own independent evaluation whether a Pinnacle product is suitable for a specific end-use. No one is authorized to assume any warranties on behalf of Pinnacle without written agreement from an authorized Pinnacle employee. Pinnacle limits its liability to either replacement of non-performing material, or payment not to exceed the cost of the polypropylene supplied plus transportation charges.