

HP53-25-155 Polyethylene Copolymer

Regulatory Position Statement

Regulatory Issues

January 2012

US FDA Compliance

HP53-25-155, as manufactured, is in compliance with Title 21 (Edition 2011), Code of Federal Regulations (CFR) Parts 177.1520 (c) (Item 3.2(a)) and 178.2010 as promulgated by the US Food and Drug Administration (FDA). It is therefore permitted by the FDA for use in food-contact applications for food-type categories and the conditions of use defined in Table 2 in Title 21 CFR, Part 176.170(c) as follows:

- Food Contact Categories I through IX
- Conditions of Use B-H

EU Food Contact Compliance – (EU) No. 10/2011

As dispatched from our plant, the monomers and additives of this INEOS product may not meet the requirements of Commission Regulation (EU) No 10/2011 of January 2011 on plastic materials and articles intended to come into contact with food. A monomer subject to an SML of 3 mg/kg is used in manufacturing HP53-25-155. HP53-25-155 also contains an additive subject to an SML of 5 mg/kg. Modeling results simulated at 40° C for 10 days indicate that this additive migrates to food stuff at a level greater than the SML, even though the monomer does not migrate at a level greater than its SML. As the conversion process can affect migration, only the converter can guarantee to the food packager that the limit is not exceeded.

Health Canada “No Objection” Letter

INEOS has not yet received a “No Objection” letter for this product from Health Canada.

China’s Hygienic Standards for Uses of Additives in Food Containers and Packaging Materials (GB 9685-2008)

As dispatched from our plant, HP53-25-155 may not meet the requirements of the GB 9685-2008, relating to plastic materials and articles intended to come into contact with foodstuffs, and its subsequent amendments. A monomer subject to an SML of 3 mg/kg is used in manufacturing HP53-25-155. HP53-25-155 also contains an additive subject to an SML of 5 mg/kg. Modeling results simulated at 40° C for 10 days indicate that this additive migrates to food stuff at a level greater than the SML, even though the monomer does not migrate at a level greater than its SML. As the conversion process can affect migration, only the converter can guarantee to the food packager that the limit is not exceeded.

The information contained herein relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The representations herein expressed are neither intended nor shall be construed as a definitive or comprehensive statement of all constituents sought. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. Recipient hereby acknowledges and accepts its responsibility to determine and ensure all conditions, specifications, and regulatory requirements are met and the products fabricated from the specific product and/or material designated are acceptable for use in the intended application.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard
Suite 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS
Olefins & Polymers USA

HP53-25-155 Polyethylene Copolymer

Regulatory Position Statement

Drug Master File(s)

This product is filed with the FDA in INEOS Drug Master File #1362. A letter of authorization for the FDA to access our file on your behalf is available upon request.

GMP and EU 2023/2006/EC

INEOS O&P USA's product safety program ensures that our products are consistently produced and controlled to ensure conformity with the rules applicable to them and with the quality standards appropriate to their intended use by not endangering human health or causing an unacceptable change in the composition or organoleptic characteristics of the food.

WEEE

European Directive 2002/96/EC covers waste from electrical and electronic equipment (WEEE). INEOS products are raw materials used in the manufacture of articles and components; therefore, this Directive is not directly applicable to our products. This product does not contain any substances classified as hazardous.

RoHS

INEOS polymers are in compliance with European Directive 2002/95/EC (RoHS) as it relates to the restriction of the use of certain hazardous substances in electrical and electronic equipment.

GLOBAL INVENTORY STATUS

<i>Country</i>	<i>Inventory</i>	<i>Y/N</i>
United States	TSCA	Y
European Union	EINECS	Y
China	IECSC	Y
Canada	DSL	Y

<i>Country</i>	<i>Inventory</i>	<i>Y/N</i>
Japan	ENCS (METI)	Y
Korea	KECI	Y
Australia	AICS	Y
Philippines	PICCS	Y
New Zealand	NZIoC	Y

The information contained herein relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The representations herein expressed are neither intended nor shall be construed as a definitive or comprehensive statement of all constituents sought. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. Recipient hereby acknowledges and accepts its responsibility to determine and ensure all conditions, specifications, and regulatory requirements are met and the products fabricated from the specific product and/or material designated are acceptable for use in the intended application.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard
Suite 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS
Olefins & Polymers USA

HP53-25-155 Polyethylene Copolymer

Regulatory Position Statement

REACH

REACH EC 1907/2006

INEOS Olefins & Polymers USA has completed the REACH pre-registration of all required chemicals. This was accomplished through agreements with our INEOS colleagues in the EU to act as our Only Representatives (OR). One OR pre-registered our monomers, the other OR pre-registered the necessary additives used in our polypropylene and/or polyethylene products. All required pre-registrations were submitted prior to the December 1, 2008 deadline. Please contact Julie Clifford at julie.clifford@ineos.com if you need further information.

REACH Substances of Very High Concern (SVHC)

Current Candidate List Total: 73

None of the chemicals listed on the REACH SVHC list are intentionally added in the manufacturing process as components of this material.

Substances of Concern to Our Customers

3-MCPD (3-monochloropropane)

No 3-MCPD is intentionally added to the resin or used as additives or raw material in the manufacture of this product.

Alkylphenols and Ethoxylates

No alkylphenols, ethoxylates or estrogen-mimicking compounds are intentionally used in the manufacture of this product.

Allergens

No known allergens or allergen derivatives from such things as almonds, Brazil nuts, cashews, hazelnuts, macadamia nuts, pecans, pine nuts, pistachios and walnuts; peanuts, lupine, soy/soybeans, carmine/cochineal, milk, eggs, fish, shellfish/crustacea, tree nuts, celery, sesame seeds, mustard or mustard seeds, glutamates, glutamic acid, MSG or hydrolyzed vegetable proteins, nitrites or sulfites, or gluten from the grains of the following cereals: barley; oats; rye; triticale; or wheat; have been intentionally added during the formulation, or used as a processing aide in the manufacture of this product.

The information contained herein relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The representations herein expressed are neither intended nor shall be construed as a definitive or comprehensive statement of all constituents sought. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. Recipient hereby acknowledges and accepts its responsibility to determine and ensure all conditions, specifications, and regulatory requirements are met and the products fabricated from the specific product and/or material designated are acceptable for use in the intended application.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard
Suite 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS
Olefins & Polymers USA



HP53-25-155 Polyethylene Copolymer

Regulatory Position Statement

Animal Derived Material/BSE/TSE

No animal fats, oils, milk products or other animal- or tallow-derived products are used as components of, or in the manufacture of, this product.

Antimicrobial agents/Fungicides/Pesticides

No antimicrobial agents, fungicides or pesticides are intentionally added or used as an additive or raw material in the manufacture of this product.

Asbestos

No asbestos is intentionally added or used as an additive or raw material in the manufacture of this product.

Azo Colorants/Pigments

No azo colorants or other pigments are intentionally added or used as additives or raw materials in the manufacture of this product.

Benzophenones

No benzophenones are intentionally added to the resin or used as additives or raw material in the manufacture of this product.

Bisphenol A, BADGE, BFDGE, NOGE/ (EC) No. 1895/2005

No bisphenol A (BPA), 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether ('BADGE' i.e. Bisphenol-A DiGlycidyl Ether), bis(hydroxyphenyl)methane bis(2,3-epoxypropyl) ethers ('BFDGE' i.e. Bisphenol-F DiGlycidyl Ether) and novolac glycidyl ethers (NOGE) is intentionally added or used as an additive or raw material in the manufacture of this product.

California Proposition 65

No substance listed on California's Proposition 65 chemicals listing, known to the State of California to cause cancer or reproductive toxicity, is intentionally added in the manufacture of this product.

Canadian Chemical Management Plan

None of the chemicals listed on any of the review "batches" of the Canadian Chemical Management Plan are intentionally added as components of, or in the manufacture of, this product.

The information contained herein relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The representations herein expressed are neither intended nor shall be construed as a definitive or comprehensive statement of all constituents sought. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. Recipient hereby acknowledges and accepts its responsibility to determine and ensure all conditions, specifications, and regulatory requirements are met and the products fabricated from the specific product and/or material designated are acceptable for use in the intended application.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.



HP53-25-155 Polyethylene Copolymer

Regulatory Position Statement

Decabromodiphenyl ether (Deca)

No decabromodiphenyl ether (Deca) is intentionally added or used as an additive or raw material in the manufacture of this product.

Dimethyl Fumarate (DMF)

No dimethyl fumarate, CAS #624-49-7, is intentionally added or used as an additive or raw material in the manufacture of this product.

Dioxins

No dioxin or dioxin isomers are intentionally added or used as an additive or raw material in the manufacture of this product.

Flame Retardants

No brominated flame retardants either PBBs or PBDEs, TBA or TBP, or hexabromo cyclododecane (HBCDD), or tris-aziridinyphosphin oxide, is intentionally added to the resin or used as additives or raw material in the manufacture of this product.

Formaldehyde

No formaldehyde is intentionally added or used as an additive or raw material in the manufacture of this product.

GMOs – Genetically Modified Organisms

No GMOs, genetic material from GMOs, materials derived from GMOs, or any genetically modified ingredients have been intentionally used at any time in the manufacture of this product.

HAPs (Hazardous Air Pollutants)

None of the HAPs listed by US EPA in 40 CFR 63.3360 (c)(3) are intentionally added to the product in the manufacturing process.

Heavy Metals/CONEG/EU Directive 94/62/EC

No antimony, arsenic, barium, beryllium, cadmium, chromium, lead, mercury or selenium is used in the formulation of this product. Previous testing for these metals resulted in a total incidental amount for all

The information contained herein relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The representations herein expressed are neither intended nor shall be construed as a definitive or comprehensive statement of all constituents sought. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. Recipient hereby acknowledges and accepts its responsibility to determine and ensure all conditions, specifications, and regulatory requirements are met and the products fabricated from the specific product and/or material designated are acceptable for use in the intended application.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard
Suite 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS
Olefins & Polymers USA



HP53-25-155 Polyethylene Copolymer

Regulatory Position Statement

metals detected of < 5 ppm, compared to the CONEG requirement of < 100 ppm. The result for incidental lead concentrations was less than the detection limit of 10 ppb (0.01 ppm).

Latex Content

No latex, latex compounds or natural rubber are intentionally added or used as an additive or raw material in the manufacture of this product.

Melamine

No melamine is intentionally added or used as an additive or raw material in the manufacture of this product.

Nanoparticles

Nanoparticles are not intentionally added or used as additives or raw materials in the manufacture of this product.

N-Ethyl-toluenesulfonamide (Ortho/Para)

No N-Ethyl-toluenesulfonamide is intentionally added or used as an additive or raw material in the manufacture of this product.

Organotin Compounds

No organotin compounds are intentionally added or used as an additive or raw material in the manufacture of this product.

Ozone Depleting Chemicals (ODCs)

In compliance with EPA's US Clean Air Act, Title VI, no Class I nor Class II ODC is intentionally added or used as an additive or raw material in the manufacture of this product.

PAHs (Polycyclic Aromatic Hydrocarbons)

None of the PAHs listed by US EPA are intentionally introduced in the process or is known to be produced in the process.

The information contained herein relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The representations herein expressed are neither intended nor shall be construed as a definitive or comprehensive statement of all constituents sought. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. Recipient hereby acknowledges and accepts its responsibility to determine and ensure all conditions, specifications, and regulatory requirements are met and the products fabricated from the specific product and/or material designated are acceptable for use in the intended application.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard
Suite 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS
Olefins & Polymers USA



HP53-25-155 Polyethylene Copolymer

Regulatory Position Statement

PCBs

No polychlorinated biphenyl compounds (PCBs) are intentionally added or used as an additive or raw material in the manufacture of this product.

Pesticides

None of the pesticides banned or severely restricted by the US EPA are intentionally used in the manufacturing, storage or transport process of this product.

FAAs: PFOs, PFAs and PFOA and EU Directive 2006/122/EC

No perfluorooctanoic acid (PFOA), perfluoro-alkyl sulphonates (PFAS), or perfluorooctane sulfonates (PFOs) are added to the resin or used as additives or raw material in the manufacture of this product. Therefore, this product is compliant with EU directive 2006/122/EC.

Phthalates

No phthalates (e.g., DEHP, DIDP, DINP, DMP, DIDP, BBP, DNOP, DBP, DEP) are intentionally added nor used as additives or raw materials in the manufacture of this product.

PVC

No polyvinyl chloride (PVC) is intentionally added to the resin or used as additives or raw material in the manufacture of this product.

Short Chain Chlorinated paraffins (SCCPs)

No short chain chlorinated paraffins are intentionally added to the resin or used as additives or raw material in the manufacture of this product.

Silicone

No silicone is intentionally added to the resin or used as additives or raw material in the manufacture of this product.

TNPP

No Tris(nonylphenyl) phosphite (TNPP) is intentionally added or used as additives or raw materials in the manufacture of this product.

The information contained herein relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The representations herein expressed are neither intended nor shall be construed as a definitive or comprehensive statement of all constituents sought. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. Recipient hereby acknowledges and accepts its responsibility to determine and ensure all conditions, specifications, and regulatory requirements are met and the products fabricated from the specific product and/or material designated are acceptable for use in the intended application.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard
Suite 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS
Olefins & Polymers USA



HP53-25-155 Polyethylene Copolymer

Regulatory Position Statement

Triclosan (2,4,4' –trichloro-2'-hydroxydiphenyl ether)

No 2,4,4' –trichloro-2'-hydroxydiphenyl ether (Triclosan) is intentionally added or used as additive or raw material in the manufacture of this product.

Pharmacopoeias

US Pharmacopoeia

This resin has not been tested under the criteria specified in the United States Pharmacopoeia, nor ISO 10993 for biological testing of materials, because testing must be conducted on the finished product.

European Pharmacopoeia

This product contains an additive that is not specified in European Pharmacopoeia 3.1.3, “Polyolefins”.

For further information, please see our website www.ineos-op.com or contact Product Stewardship.

Email: julie.clifford@ineos.com

Phone: 281-535-6729

Fax: 281-535-6760

The information contained herein relates only to the specific product and/or material designated and may not be valid for such product and/or material used in combination with any other product and/or material or in any process, unless otherwise specified. This information in no way modifies, amends, enlarges, or creates any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED. The representations herein expressed are neither intended nor shall be construed as a definitive or comprehensive statement of all constituents sought. INEOS Olefins & Polymers USA shall not be responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices, or from hazards inherent in the nature of the product and/or material, nor for toxicological effects or Industrial Hygiene associated with particular use of any product described herein. Recipient hereby acknowledges and accepts its responsibility to determine and ensure all conditions, specifications, and regulatory requirements are met and the products fabricated from the specific product and/or material designated are acceptable for use in the intended application.

The name and logo INEOS are trademarks of the INEOS Group and its affiliated companies and businesses.

2600 South Shore Boulevard
Suite 500
League City, TX 77573
Tel: 281-535-6600
www.ineos-op.com

INEOS
Olefins & Polymers USA