

Date of Issue: Apr 2025

## Product Regulatory Certificate

Product Name:	InnoPlus HD2000F
Chemical Name and Synonyms:	Polyethylene
CAS Number:	9002-88-4 Polyethylene
Formula:	(CH <sub>2</sub> -CH <sub>2</sub> ) <sub>n</sub>
Typical Application:	InnoPlus HD2000F extrusion coating and film application
Company Identification/Supplier:	<b>PTT Global Chemical Public Company Limited</b> 555/1, Energy Complex, Building A, 18 <sup>th</sup> Floor, Vibhavadi Rangsit Road, Chatuchak, Chatuchak, Bangkok, 10900, Thailand

### i) Chemical Inventories

This product is used the chemicals or ingredients which comply with following chemical inventories:

European Union: European Inventory of Existing Commercial Chemical Substances (EINECS)

United States: Toxics Substances Control Act Inventory (TSCA)

Canada: Domestic and Non-Domestic Substances List (DSL/NDSL)

Australia: Australian Inventory of Industrial Chemicals (AIIC)

New Zealand: New Zealand Inventory of Chemicals (NZIoC)

Korea: Korean Existing Chemicals Inventory (KECI)

Japan: Japanese Inventory of Existing and New Chemical Substances (ENCS)

China: China Inventory of Existing Chemical Substances (IECSC)

Philippine: Philippines Inventory of Chemicals and Chemical Substances (PICCS)

Taiwan: National Existing Chemical Inventory (NECI)

Thailand: Thailand Existing Chemicals Inventory (TECI)

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## ii) REACH (Regulation (EC) No.1907/2006)

We do NOT intend to use the substances listed in candidate chemicals proposed to be Substances of Very High Concern (SVHC). The list SVHCs can be found as following link below, <https://echa.europa.eu/candidate-list-table> (updated on 21/01/2025). Moreover, polymer molecules are generally regarded as representing a low concern due to their high molecular weight, this group of substances is exempted from registration and evaluation under REACH. Nonetheless, manufacturers or importers of polymers in supply chain may still be required to register the monomers. We recommend you to consult in detail for further clarification concerning your own obligations related to the REACH legislation.

## iii) Food Contact

### China Food Contact Regulation

This product complies with the relevant requirements of GB4806.1-2016 "National Food Safety Standard: General Safety Requirements for Food Contact Materials and Articles" under GB31603-2015 "National Food Safety Standard: General Health Code for Production of Food-contacted Material and Products". The additives of this product are listed in GB9685-2016 "National Food Safety Standard: Standard for the Use of Additives in Food Contact Materials and Articles". This product complies with GB4806.7-2023 "National Food Safety Standard: Plastic Materials and Products for Food Contact".

### European Union (EU) Food Contact

All constituents of this resin are listed in Commission Regulation (EU) No. 10/2011 of January 14, 2011 on plastic materials and articles intended to come into contact with food and its amendments; Commission Regulation (EU) 321/2011, Commission Regulation (EU) No. 1282/2011, Corrigendum to Regulation (EU) 1183/2012, Commission Regulation (EU) 1183/2012, Commission Regulation (EU) 202/2014, Commission Regulation (EU) No. 2015/174, Commission Regulation (EU) No. 2016/1416, Commission Regulation (EU) No. 2017/752, Commission Regulation (EU) No.2018/79, Commission Regulation (EU) No.2018/213, Commission Regulation (EU) No.2018/831, Commission Regulation

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(EU) No. 2019/37, Commission Regulation (EU) No.2019/1338, Commission Regulation (EU) No.2020/1245, Commission Regulation (EU) 2023/1442 and Commission Regulation (EU) 2023/1627, Commission Regulation (EU) 2024/3190 and Commission Regulation (EU) 2025/351. This product complies with overall migration limit and specific migration of heavy metal limit as well.

This product complies with the relevant requirements in Regulation (EC) No 1935/2004 and Regulation (EC) No 2023/2006 (Good Manufacturing Practice).

### US Food and Drug Administration (FDA)

This product is complied with the Food and Drug Administration (FDA) Specifications according to U.S. FDA 21 Code of Federal Regulations part 177.1520 (c) (2.1).

## iv) RoHS

This product is complied with EU Directive 2011/65/EU and its subsequent amendments. It is not intended to used Cadmium, Hexavalent Chromium, Lead, Mercury, Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Bis (2-ethylhexyl) Phthalate (DEHP), Butyl Benzyl Phthalate (BBP), Dibutyl Phthalate (DBP) or Diiso Butyl Phthalate (DIBP) as raw materials in its recipe/ manufacturing process.

## v) Hazardous Substances

### Bovine Spongiform Encephalopathy (BSE)/Transmissible Spongiform Encephalopathy (TSE)/“Mad Cow”

The derived from animal sources are not intentionally used in this product recipe.

### California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product contains substance which is listed in California Proposition 65 (Updated on 3.1.2025) . The substance in question is N-Hexane (110-54-3), which regarded in Proposition 65 List of Chemicals. In

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addition, we have no information to propose that the exposure to the low levels of Hexane substance found in our resin poses any significant risk to the end-user or consumer.

### Coalition of Northeastern Governors (CONEG)

We hereby certify that we do NOT intend to use lead, mercury, cadmium and hexavalent chromium in this product recipe. Furthermore, this product meets the CONEG requirement of less than 100 ppm for total incidental lead, mercury, cadmium and hexavalent chromium.

### Commission Decision (2009/251/EC)

According to the requirement of Member States (2009/251/EC) to ensure that products containing the biocide dimethylfumarate (DMF) are not placed or made available on the market. This product is not intentionally manufactured with DMF in its recipe.

### Directive 2000/53/EC End of Life Vehicle and its following amendments

The quantity of Cd, Pb, Cr(VI) and Hg present in this product are in compliance with 2005/673/EC, amending Annex II of Directive 2000/53/EC of the European Parliament and of the Council on end-of-life vehicles. A maximum concentration value up to 0.1 % by weight and per homogeneous material, for lead, hexavalent chromium and mercury and up to 0.01 % by weight per homogeneous material for cadmium shall be tolerated.

### Directive 94/62/EC

According to EU Directive 94/62/EC on Concentration Levels of Heavy Metals Article, Lead, Cadmium, Mercury and Hexavalent Chromium, we hereby certify that we do NOT intend to use these chemicals in this product.

## Directive 2003/89/EC Food Allergens

We do NOT intend to use food allergenic substances listed in Appendix II following European, United State and Japan food allergens listed in this product recipe.

## Nuclear Radioactive Materials

We hereby certify that we do NOT intend to use Radioactive Materials; source materials (uranium and thorium), special nuclear materials (enriched uranium and plutonium) and byproduct materials (materials that is made radioactive in reactor, and residue from the milling of uranium and thorium), in this product recipe.

## Ozone Depleting Substances

Ozone depleting substances listed in Annex I and II in the Regulation (EC) No 1005/2009 of The European Parliament and of the Council of 16 September 2009 and listed as class I & II substances by the US Clean Air Act on substances that deplete the ozone layer are not intentionally used in the product recipe and manufacturing process.

## Regulation (EC) no. 1895/2005

BADGE, NOGE and BFDGE are not intentionally use in this product formulation and manufacturing process according to the requirement of Regulation (EC) No. 1895/2005.

## Regulation (EC) no. 2022/1616

We would be pleased you to ensure that this product has not been produced from recycled plastics materials.

## vi) TIS 816-2565

This product and its manufacturer have been assessed and found to be conforming to the requirements of Thailand Industrial Standard: TIS 816-2565 for Polyethylene resins.

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## vii) GHPs & HACCP

The manufacturing of InnoPlus product which used to produce food packaging is certified for GHPs&HACCP standard according to Codex Alimentarius by Management System Certification Institute(Thailand).

## viii) Other regulations

### Animal Derived Material

We do NOT intend to use animal derived material in this product recipe.

### Bisphenol Group

We do NOT intend to use Bisphenol Group in this product recipe listed on attached document in Appendix III.

### Fluorotelomers, Perfluorooctanoic acid (PFOA), Per-and Polyfluoroalkyl Substances (PFAS) and their derivatives

We do NOT intend to use Fluorotelomers, Perfluorooctanoic acid (PFOA), or Perfluorooctane sulfonate (PFOS) and Per-and Polyfluoroalkyl Substances (PFAS) in this product recipe.

### Halogenated Flame Retardant

We do NOT intend to use halogenated or phosphorous based flame retardants in this product recipe.

### Natural Rubber or Latex

We do NOT intend to use Natural Rubber Latex, Dry Natural Rubber and Synthetic Latex in this product recipe.

### Tallow

We do NOT intend to use Tallow derived additives in this product recipe.

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## Phthalates

We do NOT intend to use phthalates, including di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), di-n-octyl phthalate (DnOP), diisobutyl phthalate (DIBP), di-n-pentyl phthalate (DNPP or DPENP), di-n-hexyl phthalate (DHEXP or DHP), and dicyclohexyl phthalate (DCHP) in this product. *(Updated on 19.12.2018)*

## Toys

Relating to restrictions on the marketing and use of certain dangerous substances and preparations (phthalates in toys and childcare articles) in Directive 76/769/EEC and its amendment 2005/84/EC, we would like to inform that we do not intend to use Phthalates in this product formulation.

## Drug Master File (DMF)

We do not confirm this product will be complied with US FDA Drug Master File.

## European Pharmacopoeia (EP)

This product has not been tested under European Pharmacopoeia guidelines.

## US Pharmacopoeia (USP)

This product has not been tested under united Stated Pharmacopoeia guidelines.

## Kosher

Although no animal fat and no animal derived materials used in this product, we do not certify the resin to be Kosher or in compliance with Kosher requirements.

## Conflict Minerals

We do NOT intend to use tin, tantalum, tungsten and gold (3TG) in this product recipe and manufacturing process.

## Food Allergens and Food Sensitivity

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We do not intend to use Genetically Modified Organisms (GMOs) and food allergens listed on attached document in Appendix II.

## ix) Polycyclic Aromatic Hydrocarbon(PAHs)

The Polycyclic aromatic hydrocarbons(PAHs) are not intentionally used in the manufacture or formulation of this product listed on attached document in Appendix IV.

## x) Disclaimer

- This Applications specified herein is for reference only and not suitable for using in the manufacturing of any products in medical and pharmaceutical sectors.
- Determination of suitability of the product for the use and purpose shall be the customer's responsibility. Customer is obligated to inspect and test the product for such suitability. Customer is responsible for appropriate, safe, legal use processing and handling of the product.
- To our best knowledge, information contained herein is true and accurate as of the date of its publication. However, we make no representations or warranties with respect to accuracy, reliability and completeness of the information contained herein for any purpose.
- No warranties, express or implied, which extend beyond the description herein are given by us. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- We assume no liability for any use of the product in combination with other materials. The information contained herein entirely relates to the product when it is not used in combination with any third party's materials.

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## xi) Absence of Substance and Chemicals

We do not intend to use the Substances/Chemicals listed in attached Appendix I, II, III and IV in our product recipe.

PTT Global Chemical Public Company Limited shall not notify you in case changes in the regulations occur. It is the responsibility of the customer to check compliance of the final articles with the relevant legislative and applicable regulatory requirements including their restrictions.

For any limitations which are part of the regulations should be consulted in details.

Approved By:



(Pisit Amornpitugsakul)

Vice President, Planning and Supply Chain, Polymers

PTT Global Chemical Public Company Limited

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