



ISO 9001/14001/45001, ISCC PLUS certified



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Declaration of Compliance

January 15, 2026

PP BJ5500

To whom it may concern:

Product manufacturer

Hanwha TotalEnergies Petrochemical Co., Ltd. in the Republic of Korea

Allergens – Regulation (EU) No 1169/2011

We confirm that this product complies with Regulation (EU) No 1169/2011. The following allergens listed in Annex II of Regulation (EU) No 1169/2011 are not intentionally added and not used as additive or raw material in the manufacturing of this product.

- cereals containing gluten, crustaceans, eggs, fish, peanuts, soybeans, milk, nuts, celery, mustard, sesame seeds, sulphur dioxide and sulphites, lupin, molluscs and products there of

Animal derived substances

We confirm that any animal derived substances are not intentionally added and not used as additive or raw material in the manufacturing of this product. Therefore, this product is free of bovine spongiform encephalopathy(BSE) and transmissible spongiform encephalopathy(TSE) risk.

CLP – Regulation (EC) No 1272/2008

We confirm that this product does not contain CMR(Carcinogenic, Mutagenic, toxic to Reproduction) substances(category 1A, 1B and 2) and skin sensitizers(H317) listed in Regulation (EC) 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Endocrine disrupting chemicals (EDC)

We confirm that this product does not contain endocrine disrupting chemicals listed in List I, II and III of Endocrine Disruptor Lists on <https://edlists.org/the-ed-lists>.

List I: Substances identified as endocrine disruptors at EU level

List II: Substances under evaluation for endocrine disruption under an EU legislation

List III: Substances considered, by the evaluating National Authority, to have endocrine disrupting properties

Statement on the compliance with Halal and Kosher

This product does not have Halal certification. However, we confirm that we do not use ethanol and any ingredients of animal origin as additive or raw material in the manufacturing of this product. The manufacturing process including equipment and facilities has not been contaminated with Haram(banned) substances and appropriate procedures have been followed to avoid any type of cross-contamination.

Ozone Depleting Substances (ODS) – Regulation (EC) No 2024/590

We confirm that this product complies with Regulation (EC) No 2024/590 of the European Parliament and of the Council of 7 February 2024 on substances that deplete the ozone layer, and repealing Regulation (EC) No 1005/2009. Ozone depleting substances such as chlorofluorocarbons(CFC), hydrobromofluorocarbons(HBFC), hydrochlorofluoro carbons(HCFC), carbon tetrachloride, methyl chloroform, methyl bromide and halons are not intentionally added and not used as additive or raw material in the manufacturing of this product.

PFAS

We confirm that per- and polyfluoroalkyl substances(PFAS) such as the below substances are not intentionally added and not used as additive or raw material in the manufacturing of this product.

- **Perfluoroalkyl carbonyl compounds**
perfluoroalkyl carboxylic acids(PFCA), their salts and esters (e.g. PFHxA, PFHpA, PFOA, PFNA)
- **Perfluoroalkane sulfonyl compounds**
perfluoroalkane sulfonic acids(PFSA), their salts and esters (e.g. PFBS, PFHxS, PFOS)
- **Perfluoroalkyl phosphate compounds**
perfluoroalkyl phosphonic acids(PFPA), their salts and esters
perfluoroalkyl phosphinic acids(PFPiA), their salts and esters
- **Per- and polyfluoroalkyl ether-based compounds**
per- and polyfluoroalkyl ether carboxylic acids(PFECA), their salts and esters
per- and polyfluoroalkyl ether sulfonic acids(PFESA), their salts and esters
- **Fluoropolymers**
polytetrafluoroethylene(PTFE), polyvinyl fluoride(PVF), polyvinylidene fluoride(PVDF),
fluorinated ethylene propylene(FEP), ethylene tetrafluoroethylene(ETFE), etc.

PBT chemicals – TSCA

We confirm that the following persistent, bioaccumulative, and toxic(PBT) chemicals under US TSCA(Toxic Substances Control Act) Section 6(h) are not intentionally added and not used as additive or raw material in the manufacturing of this product.

1. Decabromodiphenyl ether (DecaBDE, CAS No. 1163-19-5)
2. Phenol, isopropylated phosphate(3:1) (PIP 3:1, CAS No. 68937-41-7)
3. 2,4,6-tris(tert-butyl)phenol (2,4,6-TTBP, CAS No. 732-26-3)
4. Hexachlorobutadiene (HCBd, CAS No. 87-68-3)
5. Pentachlorothiophenol (PCTP, CAS No. 133-49-3)

Persistent Organic Pollutants (POP) – Regulation (EU) 2019/1021 and as amended

We confirm that this product complies with Regulation (EU) 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants as amended up to Commission Delegated Regulation (EU) 2025/1482 of 24 July 2025. Persistent organic pollutants such as polybrominated diphenyl ethers(PBDE), per- and polyfluoroalkyl substances(PFAS), 1,1,1-trichloro-2,2-bis(4-chloro phenyl) ethane(DDT), Polychlorinated biphenyls(PCB), Polychlorinated naphthalenes(PCN), Methoxychlor, 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol(UV-328), Dechlorane Plus are not intentionally added and not used as additives or raw materials in the manufacturing of this product.

Proposition 65

We confirm that this product complies with the Safe Drinking Water and Toxic Enforcement Act of 1986 also known as California Proposition 65 which requires businesses to provide warnings to Californians about exposures to chemicals that cause cancer, birth defects or reproductive harm. Chemicals listed in Proposition 65 list of 3 January 2025 are not contained more than maximum allowable dose level(MADL) in this product. (<https://oehha.ca.gov/proposition-65/proposition-65-list>)

RoHS – Directive 2011/65/EU as amended up to (EU) 2015/863 and (EU) 2017/2102

We confirm that this product complies with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment as amended up to Commission Delegated Directive (EU) 2015/863 of 31 March 2015. Heavy metals such as lead(Pb), mercury(Hg), cadmium(Cd) and hexavalent chromium(Cr⁶⁺), brominated flame retardants such as polybrominated biphenyls(PBB) and polybrominated diphenyl ethers(PBDE) are not used nor intentionally added, and not present above 0.01wt% for cadmium, 0.1wt% for other substances. Phthalates such as bis(2-ethylhexyl) phthalate(DEHP), butyl benzyl phthalate(BBP), dibutyl phthalate(DBP) and diisobutyl phthalate(DIBP) are not used as additive and not present above 0.1wt% in this product.

Rare earth metals and heavy metals

We confirm that rare earth metals such as scandium, yttrium, lanthanum, cerium, praseodymium, neodymium, promethium and heavy metals such as lead, mercury, cadmium, hexavalent chromium, arsenic, copper, nickel are not intentionally added and not used as additive or raw material in the manufacturing of this product.

Absence of substances

- **Acetyl acetone** (CAS No. 123-54-6)
- **Acrylamide** (CAS No. 79-06-1)
- **Acrylonitrile** (CAS No. 107-13-1)
- **Ammonium dichromate** (CAS No. 7789-09-5)
- **Aromatic amines** as listed in Regulation (EC) No 1907/2006
- **Asbestos** as listed in Regulation (EC) No 1907/2006
- **Azocolourants** as listed in Regulation (EC) No 1907/2006
- **Benzene**(CAS No. 71-43-2), **Toluene**(CAS No. 108-88-3),
Ethylbenzene(CAS No. 100-41-4), **Xylenes**(CAS No. 1330-20-7)
- **Benzophenones** : Benzophenone(CAS No. 119-61-9), 2-hydroxybenzophenone(CAS No. 117-99-7),
3-hydroxybenzophenone(CAS No. 13020-57-0), 4-hydroxybenzophenone(CAS No. 1137-42-4),
4-methylbenzophenone(CAS No. 134-84-9)
- **Bisphenols** : Bisphenol A(CAS No. 80-05-7), Bisphenol F(CAS No. 620-92-8), Bisphenol S(CAS No. 80-09-1)
- **Cellulose**
- **Dimethyl fumarate** (CAS No. 624-49-7)
- **Dioxins and furans**
- **Epoxy derivatives** as listed in Commission Regulation (EC) No 1895/2005 :
2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether(BADGE), bis(hydroxyphenyl)methane
bis(2,3-epoxypropyl) ethers(BFDGE), novolac glycidyl ether(NOGE)
- **Ethanol** (CAS No. 64-17-5)
- **Ethylene oxide** (CAS No. 75-21-8)
- **Explosive precursors** as listed in Regulation (EU) No 98/2013
- **Flame retardants**
- **Formaldehyde** (CAS No. 50-00-0)
- **Gallium** (CAS No. 7440-55-3), **Germanium** (CAS No. 7440-56-4)
- **Genetically modified organism(GMO)**
- **Genotoxic substances**
- **Halogens** : Fluorine, Bromine, Iodine

- **Latex**
- **Melamine** (CAS No. 108-78-1)
- **Metals** as listed in Commission Regulation (EU) 2020/1245 :
Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Europium, Gadolinium, Iron, Lanthanum, Lead, Lithium, Manganese, Mercury, Nickel, Potassium, Sodium, Terbium, Zinc
- **Nanomaterials**
- **Nitrofurazone** (CAS No. 59-87-0)
- **Nitrosamine** (CAS No. 35576-91-1)
- **Nonylphenol and nonylphenol ethoxylate** as listed in Regulation (EC) No 1907/2006
- **Organotin compounds** as listed in Commission Decision 2009/425/EC :
dibutyltin(DBT), tributyltin(TBT), triphenyltin(TPT), Dioctyltin(DOT)
- **Pentachlorophenol and its salts and esters** as listed in Regulation (EC) No 1907/2006
- **Pesticides** including biocides and herbicides
- **Polychlorinated biphenyls(PCB), polychlorinated terphenyls(PCT), polychlorinated naphthalenes(PCN)**
- **Polycyclic aromatic hydrocarbons(PAH)**
- **Potassium dichromate** (CAS No. 7778-50-9)
- **Radioactive substances**
- **Recycled plastic materials** as defined in Commission Regulation (EC) No 282/2008
- **Rosin** (CAS No. 8050-09-7)
- **Semicarbazide** (CAS No. 57-56-7)
- **Short-chain chlorinated paraffins** as listed in Regulation (EC) 1907/2006
- **Sodium dichromate** (CAS No. 10588-01-9)
- **Styrene monomer(SM), polystyrene(PS)**
- **Tallow**
- **Titanium dioxide** (CAS No. 13463-67-7)
- **Trichloroethylene** (CAS No. 79-01-6)
- **Triclosan** (CAS No. 3380-34-5)
- **Vinyl chloride monomer(VCM), polyvinyl chloride(PVC)**

Global chemical inventories

All substances used in the manufacturing of this product are listed in the following chemical inventories.

- **Australia** : Australian Inventory of Industrial Chemicals (AIIC)
- **Canada** : Domestic Substances List (DSL)
- **China** : Inventory of Existing Chemical Substances in China (IECSC)
- **Europe** : EINECS/ELINCS replaced by REACH
- **Japan** : Existing and New Chemical Substances (ENCS)
- **Korea** : Korea Existing Chemicals Inventory (KECI)
- **New Zealand** : New Zealand Inventory of Chemicals (NZIoC)
- **Philippines** : Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- **Taiwan** : Taiwan Chemical Substance Inventory (TCSI)
- **USA** : Toxic Substances Control Act Inventory (TSCA)
- **Vietnam** : National Chemical Inventory (NCI)

Our certificate does not cover:

- Any modification of the above product by any addition of any other materials to it
- Any prejudicial modification of the above product resulting from a processing of the above product
- An inadequate use and/or storage of the above product and of the finished articles

Sincerely yours,



Kwangyuel Lim
Team Leader
Polymer Development Team 2