

Regulatory Data Sheet of LG PP

LG PP M1650

1. EU Registration, Evaluation and Authorization of Chemicals (REACH)

1.1 Preregistration

As the Only Representative of LG Chem Ltd. under Regulation (EC) No 1907/2006 (REACH), LG Chem Europe GmbH has completed the pre-registration of the substances contained in the product. Disclosure of pre-registration numbers is optional under REACH; therefore, in accordance with our internal policy, pre-registration numbers are not disclosed.

1.2 Registration

LG Chem Ltd. has completed the REACH registration of substances that are manufactured by LG Chem Ltd. and subject to registration requirements, in compliance with the applicable deadlines for EU export tonnage. In addition, LG Chem's raw material suppliers have confirmed that their respective substances have been registered in accordance with REACH requirements.

2. Substances of Very High Concern (SVHC)s

We confirm and acknowledge the Candidate List of Substances of Very High Concern for authorization according to the European regulation regarding Registration, Evaluation, and Authorization of Chemicals (REACH) and in accordance declare the following : We hereby declare that this product does not contain any chemical substances included in the most updated Candidate List at concentrations $\geq 0.1\text{wt}\%$. (List updated by, <D(2025)7771-DC(04-Feb-2026)>)

3. Regulation(EC) N° 1907/2006, ANNEX X VII & XIV

This product does not contain the substances listed in ANNEX XVII(last updated : Jul 04, 2022) and XIV(last updated : April 11, 2022)

4. Heavy Metals (Restriction of Hazardous Substances)

This product meets the relevant requirements of the following

- Directive 2011/65/EU as amended by Commission Delegated Directive (EU) 2015/863 (RoHS)
- Directive 2012/19/EU (WEEE)
- Regulation (EC) No 1907/2006 (REACH), including Annex XVII restrictions

The following materials are not used intentionally added in the production of the resin.

- Heavy metals : Cadmium (Cd), Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr VI)
- Flame Retardants : PBBs (Polybrominated Bisphenyl), PBDEs (Polybrominated Diphenyl Ether)
- Phthalates : DBP (Dibutyl Phthalate), DEHP (Di(2-ethylhexyl) phthalate), DIBP (Diisobutyl phthalate), BBP (Benzyl butyl phthalate)

Phthalates are not intentionally added as additives or raw materials in the manufacture of the PRODUCT.

This information applies only to the resin as supplied and does not cover any additives, pigments, or other substances that may be introduced later by the converter or downstream processor. It remains the responsibility of the manufacturer of the finished article to ensure compliance with all applicable regulations under actual use conditions.

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5. EU Directive (EU)2025/40 : Packaging and Packaging Waste (PPW) & CONEG

This product is under the limit set (100ppm) for heavy metals defined as lead, cadmium, mercury and chromium(VI)

6. German Ordinance on Commodities, as amended on 23 Dec 1997

This product does not contain chromium(VI).

7. Food Allergens : Regulation(EC) 1169/2011-ANNEX II , (US) Allergen Labeling and Consumer Protection Act of 2004. 21 note-FALCPA, (Canada) B.01.010.1(1)

None of allergens included in the most updated list (EU : Regulation 1169/2011 Annex II, US : Allergen Labeling and Consumer Protection Act of 2004. 21 note, Canada : Food and Drug Regulation(C.R.C., c.870) Section B.01.010.1(1)) are contained in this product.

8. Commission Regulation (EC) 1895/2005: Epoxy-Derivative and following amendments

This product does not contain BADGE, BFDGE, NOGE.

BADGE : 2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl)ether
(CAS No 001675-54-3) and their derivatives.

BFDGE : bis(hydroxyphenyl) methane bis(2,3-epoxypropyl)ethers
(CAS No 039817-09-9) and their derivatives.

NOGE : Other Novolac Glycidyl Ethers and their derivatives.

9. Dodd-Frank Act

This product does not contain Conflict Mineral.

10. Regulation(EU) N° 2019/1021

The substances mentioned in the Stockholm Convention on Persistent Organic Pollutants(POPs) and in the Regulation(EU) N°2019/1021 "on Persistent Organic Pollutants" are not used.

11. MOSH/MOAH

This product does not contain MOSH/MOAH in the formulation.

MOSH : Mineral oil saturated hydrocarbons

MOAH : Mineral oil aromatic hydrocarbons

12. Cradle to Cradle

None of chemical substances included in the Cradle to Cradle Certified Banned List of Chemicals are contained in this product.

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13. Regulation(EC) N° 1223/2009 : Cosmetic Products

None of chemical substances included in the list of annex II and annex III of the regulation 2009/1223/EC are contained in this product.

14. Halal and Kosher

This product doesn't have Halal and Kosher certification. However, we do not intentionally add the substances of animal origin and ethanol to this product.

15. Technical Regulations of the Customs Union(TR CU 005/2011 on Packaging Safety)

We do not intentionally add the substances in the list of Appendix 1.(1.1) as follows; Formaldehyde, Acetaldehyde, Ethyl acetate, Hexane, Heptane, Methanol, Propanol, Isopropanol, Butanol, Isobutanol.

16. California Proposition 65(CP65, last updated : Dec-08-2025)

Based on the information available and obtained from our raw material suppliers and taking into account that we don't add as intentional additives or ingredients listed on the California Proposition 65 (last updated : 8th-Dec-2025), this product is complied with California Proposition 65.

17. Endocrine Disruptor Lists(The ED Lists, last updated : Dec-2025)

We do not intentionally add the substances in the Endocrine Disruptor Lists(List I, II, & III).

18. Dimethylfumarate (DMF)

In compliance with EU Commission Decision 2009/251/EG on the prohibition of Dimethylfumarate, this product does not contain or not be intentionally added to Dimethylfumarate.

19. GMP

The production and processes of this grade have been complied with ISO 9001 - quality management system for food contact. The statement of quality assurance, quality management and document management system of ISO 9001 is same as those of regulation (EC) No 2023/2006 on Good Manufacturing Practice (GMP) for materials.

20. CMR

CMR is Carcinogenic, Mutagenic or toxic to Reproduction in the EU's Registration, evaluation, authorization and restriction of chemicals law. None of the additives used on the manufacture process of this product which is classified as dangerous to the environment with Regulation (EC) No 1272/2008.

21. The Safety of Toys

This product does not intentionally contain any substances restricted under Directive 2009/48/EC of the European Parliament and of the Council of 18 June 2009 on the safety of toys, Annex II – Particular Safety Requirements, Part III: Chemical Properties.

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22. Bisphenol A (BPA)

This product complies with the provisions of Commission Regulation (EU) 2024/3190, which prohibits the use of Bisphenol A (BPA, CAS No. 80-05-7) and other hazardous bisphenol substances in materials intended to come into contact with food.

- Compliance Details:

- : Bisphenol A (BPA) and other bisphenol substances classified as CMR or endocrine disruptors under Annex VI of Regulation (EC) No 1272/2008 are not used as monomers, additives, or processing aids in the manufacturing of above products.
- : The product does not release BPA or related substances above the regulatory detection limit of 1 µm/kg in migration tests.

23. French AGECE LAW : 2020-105 (Article 13)

We do not intentionally add the following substances which are listed in Article 13 of French AGECE Law: 2020-105 of 10 February 2020 and amendments.

- Article L.541-9-1, Article L. 5232-5

24. National Chemical Inventory

- AUSTRALIA: Australian Inventory of Chemical Substances (AICS)
- CANADA: Domestic Substances List (DSL)
Non-Domestic Substances List (NDSL)
Significant New Activity (SNACs)
- EUROPEAN UNION: European Inventory of Existing Commercial Chemical Substances (EINECS)
European List of Notified Chemical Substances (ELINCS)
- JAPAN: Existing and New Chemical Substances (ENCS)
- KOREA: Korea Existing Chemicals Inventory (KECI)
- NEW ZEALAND: New Zealand Inventory of Chemicals (NZIOC)
- TIWAN: Taiwan Chemical Substance Inventory (TSCI)
- UNITED STATES: Toxic Substances Control Act Inventory (TSCA)
- CHINA: Inventory of Existing Chemical Substances in China (IECIC)
- PHILIPPINES: Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- TAILAND: Thailand Existing Chemicals Inventory (TECI)
- VIETNAM: Vietnam National Chemical Inventory (VNCI)

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25. Food Contact

25.1 United States Food and Drug Administration

This product complies with the US FDA Regulation 21 CFR 177.1520(c) and may be used with all type of food under conditions of use A through H as described in table 2 of 21 CFR176.170(c).

26. Other Hazardous Substances

In accordance with applicable regulations and specific customer requirements, the following substances are not intentionally used in the formulation of this product.

- 1) Animal product associated with Bovine Spongiform Encephalopathy (BSE) or Transmissible Spongiform Encephalopathy (TSE), 2) Halogen Substances : Br
- 3) Bisphenol-A, S, F, AF, AP, B, BP, C, Cl, E, G, M, P, PH TMC, Z and/or its derivatives, 4) N-Ethyl ortho-toluene Sulfonamide (CAS No. 1077-66-1),
- 5) N-Ethyl para-toluene Sulfonamide (CAS No. 80-39-7), 6) BHT (Butylated Hydroxytoluene) / BHA (Butylated Hydroxyanisole), 7) TNPP (Trisnonylphenyl Phosphite),
- 8) Radioactive particles and radioactive-contaminated material, 9) Paraffin Oil, Tri-i-propanol amine, Benzophenone, hydroxybenzophenones, methylbenzophenones, DMF(dimethylfumarate), 10) 4-Methyl benzophenone, 11) Alkylphenoethoxylates (APEO), 12) Alkylbenzenesulphonates (LAS), 13) Dimethylbis(hydrogenated tallow) ammoniumchloride (DHTDMAC), 14) Distearyl dimethyl ammonium chloride (DSDMAC), 15) Ditalowalkyldimethyl ammonium chloride (DTDMAC), 16) Ethylene diamine tetraacetate (EDTA), 17) Diethylene triamine pentaacetic acid (DTPA), 18) Genetically Modified Organisms (GMO), 19) Phthalate esters, 20) Tin Organic compounds,
- 21) Acrylamide (CAS No. 79-06-1), 22) Isopropylthioxanthone (ITX), 23) Natural Latex or Synthetic Latex, 24) Epoxidized soy bean oil (ESBO) Directive 2001/18/EC,
- 25) Brominated flame retardants, 26) Phthalates, 27) Aromatic Amines, 28) Asbestos, 29) Dioxin, 30) Epichlorohydrin, 31) Organotin Compounds, 32) Polychlorinated Biphenyls (PCBs), 33) Polychlorinated Terphenyls (PCTs), 34) Polybrominated Terphenyls (PBTs), 35) Vinylchloride, 36) Chlorofluorocarbons (CFCs), 37) Ozone-depleting chemicals, 38) Perfluorooctanoic acid (PFOA), Perfluorooctane sulfonate (PFOS), 39) Polycyclic aromatic hydrocarbons (PAH), also called polyaromatic hydrocarbons,
- 40) Polyvinyl Chloride (PVC), Polyvinylidene-chloride (PVDC), 41) Engineered nanomaterials styrene (CAS No. 100-42-5) and tetrahydrofuran (THF, CAS No. 109-99-9)
- 42) Alkylphenols, 43) BISDA (Bisphenol based dianhydride), 44) POSH (Polyolefinic Oligomeric saturated Hydrocarbons) 45) Melamine,
- 46) NESTA (N-ethyl ortho toluene sulfonamide), 47) Parabens, 48) Polycarbonate, 49) Styrene, 50) PFC (Perfluorocarbons),
- 51) Nanomaterials (Reg. 2011/696), 52) Biocides (Reg. EU 528/2012), 53) Pesticides and Herbicides (Reg. EC 1107/2009)
- 54) Nitrosamine (Dir. 1993/11/EEC), 55) VCM (Vinyl Chloride Monomer), 56) Plant (vegetal) Origin, 57) Plasticisers,
- 58) CMR Substances (listed in Directive CE 1272/2008 and 67/548/CEE), 59) Silicone, 60) Nanoparticles
- 61) 2-Hydroxybenzophenone (CAS No. 117-99-7), 3-Hydroxybenzophenone (CAS No. 13020-57-0), 4-Hydroxybenzophenone (CAS No. 1137-42-4)
- 62) Brominated compounds, 63) Chlorates or perchlorates, 64) Chlorinated compounds, 65) Dichlorobenzene, 66) Hexachlorocyclohexane (Lindane)
- 67) Monochlorobenzene, 68) Phosgene (Carbonyl Chloride), 69) Volatile Chlorinated Hydrocarbons (i.e. Trichlorethylene, Perchlorethylene and Methylene Chloride), 70) Volatile Fluorochlorinated Hydrocarbons, 71) N-Ethyl-O-toluene Sulfonamide (CAS No. 1077-66-1),
- 72) N-Ethyl-P-Toluene Sulfonamide (CAS No. 8047-99-2), 73) Halogenated flame retardants, 74) Chlorinated paraffins,
- 75) Short-Chain Chlorinated Paraffins (SCCPs), 76) Triclosan 2,4,4'-trichloro-2'-hydroxydiphenyl ether (CAS No. 3380-34-5)
- 77) 2-Methoxyethanol, 78) 2-Ethoxyethanol, 79) 2-Methoxyethyl Acetate, 80) 2-Nitropropane, 81) 2-Ethoxyethyl Acetate
- 82) 2,4 Dimethyl-6-tertiary-butylphenol, 83) 4,4'-Bis(dimethylamino)benzophenone, 84) Acrylonitrile, 85) Diaminostilbene (and its derivatives)
- 86) Difurans, 87) Fluorinated compounds, 88) Glyoxal, 89) Monocresyl Phosphate, 90) Monocresyl diphenyl Phosphate, 91) Nylon,
- 92) Organic Peroxides, 93) Thiazolinones, 94) Tricresyl Phosphate, 95) Anthraquinone (CAS No. 84-65-1),
- 96) Antimony Tris(Ethylene Glycoxide) (CAS No. 29736-75-2), 97) BAC (CAS No. 63449-41-2), 98) Benzene (CAS No. 71-43-2)
- 99) Cyanuric acid (CAS No. 108-80-5), 100) DDAC (CAS No. 7173-51-5), 101) Gluten, 102) Glyphosate (CAS No. 107-83-6)
- 103) N-Methylpyrrolidone (NPM) (CAS No. 872-50-4), 104) Sodium Antimonate (A) (CAS No. 15432-85-6), 105) Toluene (CAS No. 108-88-3),
- 106) Acetylacetone, 107) Adipates, 108) Azocolorants, 109) Bis(2-ethylhexyl) adipate (DEHA), 110) Common Endocrine disruptors chemicals: DDT, Chlorpyrifos, Atrazine, 2,4-D, Glyphosate, Phthalates, Polychlorinated Biphenyls, dioxins, BPA, Phenol, Brominated Flame Retardants,
- 111) Optical Brightener, 112) Recycled Plastic Materials, 113) Titanium acetyl acetate (TAA), 114) Phenol, isopropylated, phosphate (3:1),
- 115) Decabromodiphenyl ether, 116) Hexachlorobutadiene, 117) Pentachlorothiophenol, 118) 2,4,6-Tris(tert-butyl)phenol, 119) Pentachlorophenol,
- 120) PFAS (Per- and polyfluoroalkyl substances), 121) Pentachlorophenol 122) Xylene, 123) Thiuram mix (Tetramethylthiuramdisulfide (TMTD), Tetramethylthiuram monosulfide (TMTM) and Tetraethylthiuram disulfide (TETD)), 124) Antimony Trioxide (CAS No. 1309-64-4), 125) Furfural (CAS No. 98-01-1),
- 126) 3-(5-methyl-2,4-dioxypyrimidin-1-yl)prop-2-enal (CAS No. 85394-19-0), 127) Palm Oil or its derivatives, 128) Genotoxic substances 129) Titan dioxide
- 130) Dihydroxyacetone 131) 1,3-benzenediol (resorcinol), 132) Poly Alpha Olefin (PAO), 133) Antimony (Sb)

< IMPORTANT NOTICE >

The statements herein are believed to be reliable to the best of LG Chem Ltd.'s knowledge and to be current as of the date stated above. Please be advised that the statements herein are provided based on the information available to us from our material suppliers as of the date of issue. Because use conditions and applicable laws may differ from one location to another and may change with time, users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any products.

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