

Product Stewardship Information Sheet

'Advanced' Polypropylene Homopolymer

Product Manufacturer:

This product is manufactured by Advanced Petrochemical Company ('Advanced'), KSA

Regulation (EU) No. 10/2011: Food Contact Applications

The product complies with Regulation (EU) No. 10/2011 (including its amendments as of date) for food contact applications.

The product also complies with Regulation 1935/2004/EC, Restriction of use of certain epoxy derivatives 1895/2005/EC, Absence of Allergens (Regulation 1169/2011) and Absence of GMO, absence of recycled materials as per definition of Regulation 282/2008/EC.

The product also complies with Regulation 2023/2006/EC (GMP) and to this compliance 'Advanced' has standards in place such as ISO 9001:2015 which regulates production and production related activities.

The product complies with relevant requirements of Regulation EU 10/2011 (PIM) and its subsequent amendments, applicable to intermediate materials (i.e. Plastic powders, plastic granules or plastic flakes)

The monomer and additives used to produce the product are also listed in EU Regulation No. 10/ 2011 including its amendments as of date.

Dual Use Additives:

No dual use additives subject to a restriction in food are used to produce this resin as defined in Regulation 10/2011.

Specific Migration Limit (SML) & Overall Migration Limit (OML)

EU Regulation 10/ 2011 which applies to all EU Member States, specify 10 mg/dm² as the maximum overall migration from finished plastic food contact articles. OML and SML determinations are the responsibility of the manufacturer of finished plastic food contact material or article.

In accordance with EU Regulation No. 10/ 2011, the migration should be measured using the actual foodstuff or the appropriate food stimulants at the real time/temperature conditions of use, according to the rules specified in EU Directives 97/48/EC (amending 82/711/EC) and 85/572/EC.

We remind you that the users must verify that the finished items, manufactured according to good manufacturing practice, must not modify the organoleptic properties of the food.

ROHS Directives 2002/95/EC & 2011/65/EU and Commission Delegated Directive (EU) 2015/863:

The product also complies with directives 2002/95/EC & 2011/65/EU (ROHS) and the substances mentioned in the directive 2002/95/EC, 2011/65/EU (ROHS) and Commission Delegated Directive (EU) 2015/863 are not intentionally introduced and are not related to the manufacturing process of this product.

Waste Electrical and Electronic Equipment (WEEE) – Directive 2012/19/EU – Annex VII

The chemical substances (PCB, PCT, Hg, asbestos, CFC, HCFC, HFC, ceramic fibers, brominated flame retardants) requiring selective waste treatment are not used in the manufacture or formulation of this product. However, this product has not been tested for these chemical substances.

Directive 94/62/EC: Packaging and packing waste

The product complies with above referred Directive 94/62/EC and its amendments in force. Cadmium, chromium (VI), lead and mercury are not used in the manufacture of or the formulation of this product. This product meets the year 2001 requirements of less than 100 ppm for total incidental cadmium, chromium (VI), lead and mercury. In addition, the product has the potential to be recycled according to these requirements.

REACH Registration:

The product complies with REACH requirements.

Substances of Very High Concern (SVHC):

The substances, which are contained in the product, and require registration, also comply with REACH requirements and Substances of Very High Concern (SVHC) updated as of 15/01/2019. The product produced by 'Advanced' does not contain a candidate listed substance at > 0.1 wt. %. Also, to the best of our knowledge, none of these materials are generated during production of this product. Because we do not expect these materials to be present, we do not run any analysis on our raw materials or our finished products to measure for these materials. The substances of very high concern (SVHC) are not added intentionally during manufacturing process of this product.

FDA Compliance:

The product also complies with Food and Drug Administration (FDA), Regulation 21 CFR 177.1520 (a)(3)(i) and (c)3.2a. for Olefin Polymers. All ingredients used in these products meet the requirements of their respective FDA regulations and 21 CFR 177.1520 (b).

The products are considered as suitable for use in articles that contact food, including cooking, under conditions listed under 21 CFR 176.170c, Table 2, A through H, and can be used in contact with all types of food as listed in 21 CFR 176.170(c), Tab.1.

China Food Contact

- GB9693-1988 "Hygienic standard for polypropylene resin used as food packaging material": This product complies with the requirements of GB9693-1988
- GB4806.1-2016 "Food Contact Material & Articles General Safety Requirement" This product complies with relevant requirements of GB4806.1-2016 - Food Contact Material & Articles General Safety Requirement, as applicable to Plastic Resins.
- GB4806.6-2016 "National Food Safety Standard: Food Contact Resins" The base resin in this product complies with the specifications established in GB4806.6-2016, "National Food Safety Standard: Food Contact Resins, Appendix A.1, Serial Number 74, resin type: PP." No monomer(s) with SMLs are present in this base resin.
- GB9685-2016 "National Food Safety Standard: Additives for use in Food Contact Materials and Articles" The additives used in this product comply with the requirement of "GB9685-2016 National Food Safety Standard: Additives for use in Food Contact Materials and Articles" and relevant approval announcements.

Please note that some additives could have migration (SML, SML (T)) and/or Maximum Residual (QM) restrictions applicable to final food contact articles, the identities of which may or may not be disclosed in this document

Phthalates:

The product complies with Regulation (EU) 10/2011/EC. Plasticizers such as phthalates are not used in the manufacture of or the formulation of this product. However, di-butyl phthalate (DBP) as minor component of the catalyst system (a 'Technical Support Agent' as defined by European Union Directive 2007/19/EC) could be used to manufacture this product. This is typical of polypropylene resins produced with high mileage catalysts.

Historical testing with food stimulants demonstrated residual phthalates found to be less than 0.3 ppm which is the detection limit of the analytical method used.

Declaration on California Proposition 65 (update on 08/03/2019):

The monomer and additives incorporated comply with California Proposition 65 (update on 08/03/2019) and the substances listed in this proposition are not added directly or indirectly in these products.

Regulation (EC) N.1895/2005:

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.

Tallow:

Tallow derived additives may be used in the manufacture of this product.

Kosher:

We do not certify our resins to be Kosher or in compliance with Kosher requirements.

European Pharmacopeia (EP):

This product has not been tested for E.P.

Drug Master File (DMF):

Information on this product is not listed in a DMF.

US Pharmacopeia (USP):

This product has not been tested for USP Class VI.

Latex:

"Natural rubber latex", "dry natural rubber", "synthetic latex" or "rubber that contains natural rubber" is not used in the manufacture of or the formulation of this product.

Polycyclic Aromatic Hydrocarbons (PAHs):

We do not intentionally use the following polycyclic aromatic hydrocarbons (PAHs) in the manufacture of or formulation of this product.

Composting - CEN Standard EN 13432:

The product is not suitable for composting.

Energy Recovery - CEN Standard EN 13431:

The calorific gain from polypropylene in an energy recovery process is 24 MJ/kg.

MOSH, MOAH & POSH

- POSH: Polyolefin Oligomeric Saturated Hydrocarbons
- MOSH: Mineral Oil Saturated Hydrocarbons
- MOAH: Mineral Oils Aromatic Hydrocarbons

Mineral oil saturated hydrocarbons (MOSH) are paraffins and naphthenes. Mineral oil aromatic hydrocarbons (MOAH) are highly alkylated mono- and/or polyaromatic hydrocarbons from mineral oil.

The product does not fall under MOSH, MOAH nor POSH hydrocarbons.

Bovine Spongiform Encephalopathy (BSE)/Transmissible Spongiform Encephalopathy (TSE)/"Mad Cow":

- Tallow derived materials used in this product compliance to the requirements of the regulations 1223/2009/EC, 1069/2009/EC and 142/2011/EC.
- The tallow derived raw materials used in this product fulfill the requirements laid down in the Note for Guidance, EMA/410/01, rev.3, part 6.4 (Tallow Derivatives).

Chemical Inventories:

All ingredients in the product are in compliance with the following chemical inventories:

United States:	Toxic Substances Control Act Inventory (TSCA)
Canada:	Domestic Substances List (DSL) – Non Domestic Substances List (NSDL)
Europe:	European Inventory of Existing Commercial Chemical Substances (EINECS)

	European List of Notified Chemical Substances (ELINCS)
Australia:	Australian Inventory of Chemical Substances (AICS)
Korea:	Korean Existing Chemicals List (ECL)
Japan:	Japanese Existing and New Chemical Substances (ENCS)
The Philippines:	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
China:	Inventory of Existing Chemical Substances Manufactured or Imported in China (IECSC)
New Zealand:	New Zealand Inventory of Chemicals (NZIoC)
Taiwan:	Toxic Chemical Substance Control Act (TCSCA)

The product has no special requirements under US TSCA (e.g. consent orders, test rules, 12 (b) requirements, etc.).

Other no use substances:

The chemical substances listed below are not used intentionally in the manufacture or the formulation of this product and are not expected to be present. Since these products are not expected to be present, we do not carry out analysis in determining these substances.

Substance	CAS No.	Substance	CAS No.
Acenaphthylene	208-96-8	Halogenated flame retardants	-----
Acrylamide	79-06-1	GMO	-----
Acrolein (propenal)	107-02-8	Naphthalene	91-20-3
Anthracene	120-12-7	Hindered phenols	-----
Aromatic Amines	-----	Indeno(1,2,3-cd)pyrene	193-39-5
Asbestos	-----	Isopropylthioxanthane (ITX)	83846-86-0
Azo Dyes and Pigments	-----	Melamine	108-78-1
Benzene	71-43-2	Nonylphenol	25154-52-3
Benz(a)anthracene	56-55-3	Organo-tin Compounds	-----
Benzo(a)pyrene	50-32-8	Peroxide	-----
Benzo(b)fluoranthene	205-99-2	Perfluorochemicals (PFCs)	-----
Benzo(e)pyrene	192-97-2	Perfluorooctanoic acid (PFOA)	335-67-1
Benzo(ghi)perylene	191-24-2	Perfluorooctane sulfonate (PFOS)	1763-23-1
Benzo(j)fluoranthene	205-82-3	Phenanthrene	85-01-8
Benzo(k)fluoranthene	207-08-9	Polybrominated Biphenyls (PBBs)	-----
Benzophenone	119-61-9	Polybrominated Diphenyl Ethers (PBDEs)	-----
Bisphenol A and other derivatives of Bisphenol	80-05-7	Polybrominated Terphenyls (PBTs)	-----
Butylated hydroxyanisole (BHA)	121-00-6	Polychlorinated Biphenyls (PCBs)	-----
Butylated hydroxytoluene (BHT)	128-37-0	Polychlorinated Naphthalenes (PCNs)	-----
Chrysene	218-01-9	Polychlorinated Terphenyls (PCTs)	-----
Crystal Violet	548-62-9	Polycyclic Aromatic Hydrocarbons (PAHs)	-----
Chlorinated paraffins	-----	Polystyrene	-----
Cyanuric acid	108-80-5	Polyvinyl Chloride (PVC)	9002-86-2
Dibenz(a,h)anthracene	53-70-3	Polyvinylidene chloride (PVDC)	9002-85-1
Dioxins	-----	Pyrene	129-00-0
Epichlorohydrin	106-89-8	Silicone	-----
Fluoranthene	206-44-0	Styrene monomer	100-42-5
Fluorene	86-73-7	Sulfur di-oxide	7446-09-5

Fluorocarbons	-----	Sulfide or sulfide derivatives	-----
Fluorotelomers	-----	Tris-nonylphenol phosphite (TNPP)	26523-78-4
Titanium Acetylacetonate		17501-79-0	
Gold (Au)	7440-57-5	Vinyl Chloride	75-01-4
1,2-dihydro-acenaphthene		83-32-9	
2-(2H-1, 2, 3-Benzotriazol-2-yl)-4,6-di-tert-butylphenol (Benzotriazole)		3846-71-7	
2-Mercaptobenzothiazole (Benzothiazole-2-thiol or MBT)		149-30-4	
2,4 pentadione (Acetilacetone):		123-54-6	
9H-fluorene		86-73-7	

Food Allergens:

European Union

The food ingredients listed in the Annex II of European Directive 1169/2011/EC, are not used in the manufacture of or formulation of this product. However, this product has not been tested for these substances.

United States

Major food allergens (crustacean shellfish, eggs, fish, milk, peanuts, soy, tree nuts, and wheat) as specified in the Food Allergen Labeling and Consumer Protection Act (FALCPA) of 2004 are not used in the manufacture of or formulation of this product. However, this product has not been tested for these substances.

Biocides

The active substances listed in the Annex I of the biocidal products regulation, EU 528/2012, are not used in the manufacture of or formulation of this product. However, this product has not been tested for these chemical substances.

VDA 270

Representative samples of this product have been tested as per the standard, VDA 270 "Determination of the odor characteristics of trim materials in motor vehicles". Accordingly, the odor characteristic of this product is classified as Grade 2 (not perceptible) on the evaluation scale.

Coalition of Northeastern Governors (CONEG)

Cadmium, chromium (VI), lead and mercury are not used in the manufacture of or the formulation of this product. In addition, this product meets the CONEG requirements of less than 100 ppm for total incidental cadmium, chromium, lead and mercury.

Global Automotive Declarable Substance List (GADSL)

The monomer, the base resin and the additives used in the formulation of this product are not listed in the aforementioned Global Automotive Declarable Substance List. The phthalate plasticizers that have been listed in the GADSL are not intentionally used in the manufacture or formulation of this product.

Cosmetic regulation 1223/2009/EC

The EU regulation 1223/2009/EC applies to cosmetic products and it does not apply to the polymer resins. However, we confirm that any of the substances listed in the Annex II of the regulation 1223/2009/EC is not used in the manufacture or formulation of this product. However, this product has not been tested for these chemical substances.

Dimethyl Fumarate (DMF) - EU Commission Decision 2009/251/EC

Dimethyl fumarate [2-butenedioic acid (2E)-, dimethyl ester] (DMF) (CAS#: 624-49-7) is not used in the manufacture of or formulation of this product. However, we do not test this product for DMF.

Nanomaterials

NANOMATERIALS (defined as a natural, incidental or manufactured material, containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50 % or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm - 100 nm.) are not used in the manufacture of or the formulation of this product. However, this product has not been tested for these chemical substances

Triclosan (2,4,4'-trichloro-2'-hydroxydiphenyl ether)-Commission Decision of 19 March 2010-(2010/169/EU)

Triclosan (2,4,4'-trichloro-2'-hydroxydiphenyl ether) Cas. N.3380-34-5 is not used in the manufacture of or formulation of this product. However, this product has not been tested for this substance.

Conflict Minerals (Dodd-Fran Wall Street Reform and Consumer Protection)

Conflict minerals, which include columbite-tantalite (also known as coltan) [source for tantalum], cassiterite [source for tin], gold, wolframite [source for tungsten] or their derivatives are not intentionally used in the manufacture of or formulation of this product. However, we do not test this product for these substances.

Switzerland "VOC-LENKUNGSABGABE"

This product contains less than 3% VOCs of the substances in the positive lists of the above Regulations.

Rhode Island Air Toxics

To the best of our knowledge the chemicals in the list of Rhode Island Air Toxics mentioned as HAP are not used in the manufacturing or formulation of this product. However, this product has not been tested for these chemical substances.

On behalf of Advanced Petrochemical Company



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Note: The information in this document is to the best of our knowledge, true and accurate at the time and date of issue. **Advanced Petrochemical Company** makes no representations or warranties with respect to the accuracy or completeness of the information contained herein. The information provided in this document applies to the product mentioned above as it leaves the production facility of **Advanced Petrochemical Company** and does not cover any additive, pigment, or any other third party material, subsequently included by the convertor. Ultimately customers must make their own determination that their use of our product is safe, lawful (except as provided in the above certifications) and technically suitable in their intended applications. Because of possible changes in the law and in regulations, we recommend that customers continuing to use our product verify status every year from this date.

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