	HIGH DENSITY POLYETHYLENE ALCUDIA® 55050	
	REGULATORY COMPLIANCE CERTIFICATE	
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1. EUROPEAN UNION FOOD CONTACT

This product complies with the relevant requirements for intermediate materials and all the monomers and additives used in the manufacture of our above cited grade of polymer are authorised in current documents relating to:

- **Regulation 1935/2004** on materials and articles intended to come into contact with food.
- **Regulation 10/2011** on plastic materials and articles intended to come into contact with food and amendments (Regulations 321/2011, 1282/2011, 1183/2012 and 202/2014).
- **Regulation 2023/2006** on good manufacturing practice (GMP) for materials and articles intended to come into contact with food amended by Regulation 282/2008.
- **Regulation 282/2008** on recycled plastic materials and articles intended to come into contact with foods amending Regulation 2023/2006. **REPSOL QUÍMICA** does not use recycled plastic in this grade.
- **Regulation 1895/2005** on the restriction of use of certain epoxy derivatives in materials and articles intended to come into contact with food. **REPSOL QUÍMICA** does not include BADGE, BFDGE and NOGE in the composition of this grade.
- **Regulation 321/2011** amending Regulation 10/2011 on restriction of use of Bisphenol A (BPA) in plastic infant feeding bottles. **REPSOL QUÍMICA** does not include Bisphenol A in the composition of this product.

Information on substances subject to restriction

Monomers: it contains hexene as comonomer, subject to a specific migration limit of 3 mg/kg.

Dual use additives: it does not contain any food additive.

Additives with specific migration limit: this product contains the following additive/s authorised by Regulation 10/2011 but regulated with specific migration limit:

- Zinc Stearate (SML = 25 mg/kg expressed as Zn).

Other substances:

Compliance verification: according with Regulation 10/2011, the verification of compliance with the overall migration limit (OML) and when necessary with the specific migration limit (SML) should be assessed by the converter or packer in the finished product state at the real conditions of use (time, temperature and foodstuff or appropriate food simulants). Verification of compliance with the migration limits shall be carried out in accordance with the rules laid down in Regulation 10/2011 or until 31 December 2015, in Directive 82/711/EEC (and amendments) and Directive 85/572/EEC (and amendments). It is also necessary the testing of the mutual compatibility between the finished products and the food substances, in particular the non modification of their organoleptic properties.

2. UNITED STATES FOOD CONTACT (FDA – Food and Drugs Administration)

The composition of this product meets the relevant requirements of **Code of Federal Regulation (CFR Title 21 revised as of April 2013): 177.1520 "Olefin Polymers"** (a)(3)(i)(a)(1), (b) and (c) 3.1a. .

It is the responsibility of the converter or food packager to guarantee the compliance of the material in the finished form in which it is to contact food with the conditions of use and extractive limits established for every application.


3. PHARMACOPOEIA

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REPSOL QUÍMICA does not certify this product for pharmacopoeia uses.

4. HEAVY METALS

The composition of this product meets the relevant requirements of the following documents:

- **Directive 94/62** and amendments, on packaging and packaging waste (PPW), on respect to the limit set (100 ppm) for heavy metals defined as lead, cadmium, mercury and chromium (VI).
- **Directive 2000/53** and amendments, on end-of life vehicles (ELV) which establishes a maximum concentration value up to 0.1 % by weight for lead, mercury and chromium (VI) and up to 0.01 % for cadmium.
- **Directive 2011/65** and amendments, on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) which establishes a maximum concentration value up to 0.1 % by weight for lead, mercury and chromium (VI), polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) and up to 0.01 % for cadmium.
- **Directiva 2012/19** on waste electrical and electronic equipment (WEEE).
- **CONEG** (Coalition of Northeastern Governors - USA): the total content of lead, mercury, chromium (VI) and cadmium is less than 100 ppm.

5. COSMETICS

The composition of this product meets the relevant requirements of the following documents:

- **Regulation 1223/2009** and amendments, relating to cosmetic products: in the manufacture of our products we do not intentionally incorporate any of the chemicals regulated in annex II and annex III, in quantities above the applicable limits. Thus, it is not foreseeable their presence in the final product. However, most of these chemicals have not been specifically analyzed to assure their absence.


6. TOYS

The composition of this product meets the relevant requirements of the following documents:

- **Directive 2009/48** and amendments, concerning the safety of toys: in the manufacture of our products we do not intentionally incorporate any of the chemicals regulated in annex II, in quantities above the applicable limits. Thus, it is not foreseeable their presence in the final product. However, most of these chemicals have not been specifically analyzed to assure their absence.
- **Directiva 2014/79** concerning the safety of toys: in the manufacture of our products we do not intentionally incorporate TCEP, TCPP y TDCP.
- **Directive 2005/84** relating to restrictions on the marketing and use of certain dangerous substances and preparations (phthalates in toys and childcare articles), now included in annex XVII of REACH Regulation. The product does not contain any of the phthalates included in mentioned annex at concentrations above the applicable limits.
- **European Norm EN 71-3** relating to safety in toys: Part 3 (migration of certain elements).

7. REGLAMENTOS REACH y CLP

The composition of this product meets the relevant requirements of the following documents:

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- **Regulation 1907/2006** (REACH) and amendments, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals. According with article 2 (9), polymers are exempted from registration and evaluation under REACH. However, raw materials (monomers, additives, catalysts...) must be registered

REPSOL QUÍMICA or its suppliers have registered the monomers used in the manufacture of its grades of Polyethylene (PE), Polypropylene (PP), Ethylene-Vinyl Acetate Copolymer (EVA) and Ethylene-Butyl Acrylate Copolymer (EBA).

Regarding the chemical substances included in annex XVII of Regulation 1907/2006, **REPSOL QUÍMICA** does not intentionally incorporate into its polymers any of those chemicals in quantities above the applicable limits. Although it is not foreseeable their presence in the final product, specific analyses to assure the absence of most of these chemicals have not been performed.

- **SVHC** (Substances of Very High Concern): in the framework of the authorisation process, the European Commission decides on including substances that have been identified as SVHC and placed on the candidate list in Annex XIV of REACH (list of substances subject to authorization). **REPSOL QUÍMICA** does not intentionally incorporate any of these substances in the composition of its products in concentrations exceeding 0,1%, as defined in article 7.2 and 57. To complete this information refer to the general REACH/SVHC declaration.
- **Regulation 1272/2008** and amendments, on classification, labelling and packaging of substances and mixtures. CLP implements the Globally Harmonised System (GHS). CLP will stepwise replace Directive 67/548/EEC (substances) and Directive 1999/45/EC (preparations). According with this regulation this polymer is not a dangerous preparation. To complete this information refer to the Material Safety Data Sheet (MSDS).

8. RECYCLING

This polymer is recyclable including energy recovery, but it is neither compostable nor biodegradable.


9. BOVINE SPONGIFORM ENCEPHALOPATHY (BSE) / TRANSMISSIBLE SPONGIFORM ENCEPHALOPATHY (TSE)

This product could contain additives of animal origin, but according with the information from our suppliers, the processing and transformation conditions are more severe than those included in the Commission Decision 2001/2, Directives 2000/6 and 2001/83, Regulations 999/2011, 1326/2001 and 1069/2009 and Guidance EMA/410/01 rev.3 (2011), so there is not risk of transmitting BSE/TSE.

10. OTHERS REGULATIONS / NORMS

REPSOL QUÍMICA does not intentionally incorporate in the composition of its polymers any of the chemicals regulated in the following documents. The presence of these substances is then not foreseeable in the final product; however, specific analyses to assure the absence of most of these chemicals have not been performed:

- **Directive 98/83** and amendments, on the quality of water intended for human consumption: the polymer does not contain intentionally in its composition acrylamide, epichlorohydrin or vinyl chloride.
- **Directive 2000/60** and amendments, on Water Policy: the polymer does not contain intentionally in its composition any of the priority substances listed on annex X.
- **Regulation 850/2004** and amendments, on persistent organic pollutants: the polymer does not contain intentionally in its composition any of the substances included in annex I, II, III and IV.
- **Regulation 465/2008** on substances that may be persistent, bioaccumulating and toxic (PBT): the polymer does not contain intentionally in its composition any of the substances included in annex I.
- **Regulation 1005/2009** and amendments, on Ozone Layer Depleting Substances: the polymer does not contain intentionally in its composition any of the substances included in annex I and II.

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- **GMO** (Genetically Modified Organisms): according with the information from our raw materials suppliers, the polymer does not contain intentionally in its composition any GMO.
- **Nanoparticles**: **REPSOL QUIMICA** does not incorporate in this product any additive in nanoparticle form.
- **US Clean Air Act, title VI** (Stratospheric Ozone Protection): the polymer does not contain intentionally in its composition any of the substances class I and class II.
- **California Proposition 65** (Safe Drinking Water and Toxic Enforcement Act of 1986): list of the California State relating to chemicals known to the state to cause cancer or reproductive toxicity (update January 2014): this product does not intentionally incorporate any of the chemicals regulated in quantities above the applicable limits.
- **GADSL** (Global Automotive Declarable Substance List 2012 GADSL Version 1.0): this product does not intentionally incorporate any of the chemicals regulated in quantities above the applicable limits.
- **OSPAR** List of Chemicals for Priority Action (rev. 2011).
- **Conflict Minerals** (US Dodd-Frank Wall Street and Consumer Protection Act 2010): the product does not intentionally incorporate in its composition any of the metals Tantalum, Tin, Gold and Tungsten.

11. CHEMICAL INVENTORIES


Monomers and additives used in the manufacture of this polymer are listed or are in compliance with the following chemical inventories:

- AICS (Australia)
- DSL (Canada)
- EINECS / ELINCS (REACH)
- ENCS (Japan)
- IECSC (China)
- KECL (Korea)
- NZIoC (New Zealand)
- PICCS (Philippines)
- TSCA (USA)

12. ABSENCE OF SUBSTANCES

REPSOL QUIMICA does not intentionally incorporate in the composition of its polymers as additive any of the following chemicals. Although it is not foreseeable their presence in the final product, specific analyses to assure the absence of most of these chemicals have not been performed. This is a non-exhaustive list of substances:

- Acrylamide
- Allergens (annex II Regulation 1169/2011)
- Alkylphenol ethoxylates (APEO)
- Aromatic amines
- Arsenic and arsenic compounds
- Asbestos
- Azoic colorants
- Benzene
- Benzophenone, hydroxybenzophenone and 4-methylbenzophenone
- Biocides
- Bisphenol A (BPA), Bisphenol F (BPF) and Bisphenol S (BPS)
- Boron and boron compounds
- Butylated hydroxytoluene (BHT)⁽¹⁾ / Butylated hydroxyanisole (BHA)
- Cadmium and cadmium compounds
- CFC (chlorofluorocarbons) y HCFC (hydrochlorofluorocarbons)
- CMR substances class 1A and 1B (Carcinogens, Mutagens and Reprotoxics) according with Regulation CLP (1272/2008)⁽²⁾
- Diethylhexyl adipate (DEHA)
- Dimethyl fumarate (DMF)

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- Dioxines
- Epichlorhydrin
- N-Ethyl o-Toluensulfonamide and N-Ethyl p-Toluensulfonamide (NETSA)
- Flame retardants: organic brominated compounds (pentabromodiphenyl ether, octabromodiphenyl ether...), antimony compounds, chlorinated paraffins, triaryl phosphates...
- Formaldehyde
- Formamide
- Halogens and halogenated compounds
- Hexavalent Chromium and hexavalent chromium compounds
- Isopropylthioxantone (ITX)
- Latex
- Lead and lead compounds
- Lindane
- Melamine
- Mercury and mercury compounds
- Nitrosamines
- Nitrofural / Nitrofurazone
- Nyckel and nyckel compounds
- Nonylphenol, nonylphenol ethoxylate and cement
- Organostannic / Organotin compounds
- Parabenes (esters of p-hydroxybenzoic acid)
- PBT Substances (Persistent, Bioaccumulating and Toxics) and vPvB (very persistents and very bioaccumulating)
- Pentachlorophenol and its salts and esters
- Phenol
- Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonates (PFOS)
- Polycyclic aromatic hydrocarbons (PHA): anthracene, fluoranthene, naphthalene, pyrene, benzoanthracene, benzo(a)fluoranthene...
- Solvents: dichlorometane, dimethylacetamide, dimethylformamide, 2-ethoxy ethanol, nitrobenzene, trichloroethylene trichlorobenzene, trichloromethane, hexachlorobenzene...
- Styrene and Polystyrene
- Thiuram
- Toluene
- Triclosan
- Vinyl chloride monomer (VCM) and its polymers (PVC...)

- (1) See *Additives with specific migration limit* in section 1. **EUROPEAN UNION FOOD CONTACT**
- (2) See section 13. **PTHALATES**

13. PHTHALATES

This product does not contain intentionally in its composition any phthalate.

This information is only regarded to the above cited product supplied in original packaging and does not cover any subsequent modification of its composition or any usage which might produce a denaturalized material. The information provided herein is based on our best knowledge and experience. We cannot accept any responsibility for the interpretation or improper use made of this document. Because it is impossible to know in advance all the conditions under which our products are used, we cannot relieve users of our products the responsibility to conduct their own tests to determine the safety and suitability of each product or combination thereof to their own purposes.