



TotalEnergies

TotalEnergies One Tech Belgium

Refining & Chemicals / Regulatory Affairs

REGULATORY INFORMATION SHEET

Letter: ARP/21L00815

Date: Feluy, October 13, 2021

ALL UNCOLORED POLYETHYLENE EVA COPOLYMERS, LDPE, LLDPE, MDPE, HDPE, LUMICENE®, ACESO®, LOTRENE®, LUMICENE SUPERTOUGH® (manufactured in EUROPE or QATAR)

Referred as The Product in this document

PART A COMPLIANCE WITH REGULATIONS

REACH REGISTRATION Compliance – REGULATION 1907/2006/EC

On 13 December 2006, the European Commission adopted a proposal for a new EU regulatory framework for chemicals, Regulation 1907/2006/EC. Under the new system called REACH (Registration, Evaluation and Authorization of CHemicals), enterprises that manufacture or import more than one ton of a chemical substance per year are required to register it in a central database. The aims of this Regulation are to improve the protection of human health and the environment while maintaining the competitiveness and enhancing the innovative capability of the EU chemicals industry.

We can hereby confirm that The Product supplied by TotalEnergies Petrochemicals & Refinings, TotalEnergies Petrochemicals France to your company is REACH compliant as all substances it is composed of, are

- exempted from registration, and/or
- have been registered by TotalEnergies Petrochemicals & Refinings, TotalEnergies Petrochemicals France or its suppliers or an actor up in the supply chain.

REACH ANNEX XVII – REGULATION 1907/2006/EC

We hereby confirm that The Product complies with the relevant conditions of restrictions laid down in Annex XVII of the REACH Regulation, as updated on September 21, 2021.

We remind you that The Product is a plastic raw material, we therefore make reference to the applicable parts of the here above Annex.

PACKAGING AND PACKAGING WASTE - DIRECTIVE 94/62/EC

We hereby confirm that The Product complies with Directive 94/62/EC on Packaging and Packaging Waste with respect to the heavy metals content limit. Analysis done on The Product (or on a specimen representative of this material) have shown that the overall concentration of cadmium, mercury, lead and chromium is lower than 100 ppm (to be checked for other requirements). In addition, The Product has the potential to be recycled according to these requirements.

CONEG (Coalition of the Northeastern Governors, USA)

We hereby confirm that The Product complies with the requirements of CONEG because the overall concentration of cadmium, mercury, lead and chromium is lower than 100 ppm (w/w).

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Zone Industrielle C – B-7181 Seneffe (Feluy)
Tél. : +32 (0)64 51 41 11 – E-mail : research-feluy@totalenergies.com

SA TotalEnergies One Tech Belgium NV
RPM Charleroi 0438.021.316 T.V.A. BE 0438.021.316 – BNP Paribas Fortis IBAN BE48 2100 4738 2027 BIC GEBABEBB



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Regulatory Information Sheet
Polyethylene
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RoHS II – RoHS III – Directives 2011/65/EU – 2015/863/EU

We hereby inform you that Directive 2011/65/EU (up to amendment (EU) 2021/884) on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) does not cover The Product as “raw materials” but it only applies to the “electrical and electronic equipment” as finished products defined in the Annex I of Directive 2011/65/EU.

Nevertheless, we hereby confirm that neither the flame retardants polybromo biphenyls (PBB) Polybromo diphenylethers (PBDE, (this includes penta-, octa-, decabromodiphenylethers)), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) are used in the manufacturing of the above-mentioned Products. Moreover, a certificate that includes a heavy metals statement (including lead, cadmium, mercury and chromium) is included herein.

END OF LIFE VEHICLES – DIRECTIVE 2000/53/EC

We hereby confirm that this product complies with the Directive 2000/53/EC (up to amendment (EU) 2020/363) on end of life vehicles with respect to the heavy metals content limit defined in the notes of the Decision 2002/525/EC, because the overall concentration of lead, chromium and mercury is lower than 0.1 % by weight, and the concentration of cadmium is lower than 0.01 % by weight.

GENETICALLY MODIFIED ORGANISMS (GMO)

We hereby confirm that we received confirmation of our suppliers of additives* used in The Product mentioning the absence of genetically modified organisms (GMO).

*Additive as defined in Regulation (EU) No 10/2011

HALAL/KOSHER

We inform you that The Product has not received Halal/Kosher certification. We can hereby confirm that we do not use Ethanol (CAS No 64-17-5) nor substances which are of animal origin as additive* in The Product.

* Additive as defined in Regulation (EU) No 10/2011

VEGETAL/ANIMAL ORIGIN/TSE

We hereby confirm that we received confirmation of our suppliers of additives* used in The Product mentioning the absence of substances of animal origin. Based on this information, we are confident that The Product is free of any Specific Risk Materials (SRM).

*Additive as defined in Regulation (EU) No 10/2011

CONFLICT MINERALS – SECTION 1502 OF DODD-FRANCK ACT

We inform you that The Product does not contain conflict minerals: cassiterite, columbite-tantalite, wolframite, tin, tantalum, tungsten and gold.

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WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) – DIRECTIVE 2012/19/EU

We hereby inform you that Directive 2012/19/EU (up to amendment (EU) 2018/849) on waste electrical and electronic equipment (WEEE) does not cover The Product as “raw materials” but it only applies to the “electrical and electronic equipment” as finished products defined in Article 3 and classified in categories set out in Annex III of Directive 2012/19/EU.

Nevertheless, we hereby confirm that neither Polychlorinated biphenyls (PCB), Polychlorinated terphenyls (PCT), chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), brominated flame retardants, asbestos are intentionally used in the manufacturing of The Product at a threshold level higher than 0.1%.

We hereby confirm that The Product does not contain mercury, lead and hexavalent chromium at a threshold level higher than 0.1% (w/w) each, and of cadmium at a threshold level higher than 0.01% (w/w).

CALIFORNIA PROPOSITION 65 - Safe Drinking Water and Toxic Enforcement Act of 1986

We hereby confirm that we do not use the chemicals mentioned in The Proposition 65 List dated March 19th, 2021 (chemicals list that you can find at the following web address: <https://oehha.ca.gov/proposition-65/proposition-65-list>) as additive*.

Furthermore, we inform you that we do not test each grade we sell to check the potential presence of trace amounts of each chemical listed in the Proposition 65 List.

Thus, whilst we cannot make an absolute claim about the absence of Proposition 65 chemicals in The Product, we believe that no warning is required under Proposition 65.

*Additive as defined in Regulation (EU) No 10/2011

VOLATILE ORGANIC COMPOUNDS (VOC)

We hereby inform you that a representative grade of the here above-mentioned product has been analyzed by “Automated Thermal Desorption Gas Chromatography – internal method” for VOC and our results were lower than the threshold concentration pointed out (3% w/w) in Swiss Ordinance on the Incentive Tax on Volatile Organic Compounds (OVOC) of 12 November 1997 (Status as of March 1st, 2013).

NANOMATERIALS - COMMISSION RECOMMENDATION 2011/696/EU

We hereby confirm that we received confirmation of our suppliers of additives* mentioning the absence of nanomaterials as defined in the Commission Recommendation 2011/696/EU.

*Additive as defined in Regulation (EU) No 10/2011

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PART B COMPLIANCE WITH NORMS OR STANDARDS

We can hereby confirm that we do not use as additive* any substances listed in these norms and standards above the limit values. The Product is a plastic and we therefore made reference to the respective parts of these norms and standards. Furthermore, we inform you that we do not test each grade we sell to check the potential presence of trace amounts of each chemicals hereafter listed which could be present in The Product as impurities or otherwise.

1. SONY TECHNICAL STANDARDS SS-00259 Table 4.1, 18th Edition, revised 2020
2. IKEA IOS-MAT-0010, version AA-10911-15, dated 2019-12-20
3. IKEA IOS-MAT-0054 (version AA-92520-11, dated 2018-11-14)
4. IKEA IOS-MAT-0195 (version AA-2208470-2, dated 2020-01-20)
5. IKEA IOS-PRG-0021 (version AA-31847-7, dated 2011-10-14)
6. GADSL (Global Automotive Declarable Substance List), dated 2021-02-01

*Additive as defined in Regulation (EU) No 10/2011

PART C ABSENCES OF SUBSTANCES

We hereby confirm that we do not intentionally use the following substances as additive (as defined in Article 3 of Regulation (EU) No 10/2011) in the manufacturing of The Product:

- **Adipates**
- **Allergen Substances** as listed in Directive 2007/68/EC and in Annex II of Regulation (EU)1169/2011
- **Anthraquinone** (CAS RN 84-65-1)
- **Acrylamide** (CAS RN 79-06-1)
- **Acrylonitrile** (CAS RN 107-13-1)
- **Aflatoxins** B₁, B₂, G₁, G₂, M₁ and **Mycotoxins**
- **Antimony Trioxide** (CAS RN 1309-64-4)
- **Alkylphenols ethoxylates**
- **Aromatic Amines** as listed in Regulation 1907/2006/EC Annex XVII Appendix 8
- **Asbestos** as listed in Regulation 1907/2006/EC Annex XVII
- **Azocolorants** as listed in Regulation 1907/2006/EC Annex XVII Appendixes 8 and 9
- **Benzene** (CAS RN 71-43-2)
- **Benzophenone Derivatives**: Benzophenone (CAS RN 119-61-9), 2-hydroxybenzophenone (CAS RN 117-99-7), 3-hydroxybenzophenone (CAS RN 13020-57-0), 4-hydroxybenzophenone (CAS RN 1137-42-4), 4-methylbenzophenone (CAS RN 134-84-9)
- **BHA** (Tert-butyl-4-hydroxyanisole, CAS RN 25013-16-5)
- **BHT** (2,6-di-tert-butyl-p-cresol, CAS RN 128-37-0). However, we inform you that some trace amount of BHT can be present in some of our Lumicene Supertough®, Lumicene® products as an ingredient composing one of the additives used. We inform you that some trace amount of BHT can be present in HDPE 56020S, HDPE 56020SXP and in some of our LDPE Lotrene® products as a manufacturing process residue. Note that this substance is listed in the Union List under the FCM 315 with a Specific Migration Limit (SML) of 3 ppm.
- **Biocidal Products** as defined in Article 3(1)(a) of the Regulation (EU) 528/2012

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- **Bisphenols:** Bisphenol A (CAS RN 80-05-7), Bisphenol AF (CAS RN 1478-61-1), Bisphenol AP (CAS RN 1571-75-1), Bisphenol B (CAS RN 77-40-7), Bisphenol BP (CAS RN 1844-01-5), Bisphenol C (CAS RN 79-97-0), Bisphenol CII (CAS RN 14868-03-2), Bisphenol E (CAS RN 2081-08-5), Bisphenol F (CAS RN 620-92-8), Bisphenol G (CAS RN 127-54-8), Bisphenol M (CAS RN 13595-25-0), Bisphenol P (CAS RN 2167-51-3), Bisphenol PH (CAS RN 24038-68-4), Bisphenol S (CAS 80-09-1), Bisphenol TMC (129188-99-4), Bisphenol Z (CAS RN 843-55-0)
- **Carbon Black** (CAS RN 1333-86-4)
- **Blood Products** as defined in regulation (EC) No 142/2011
- **Chlorinated Aliphatic Compounds:** tetrachloromethane (CAS RN 56-23-5), 1,1,2,2-tetrachloroethane (CAS RN 79-34-5), 1,1,1,2-tetrachloroethane (CAS RN: 630-20-6), pentachloroethane (CAS RN 76-01-7), trichloromethane (chloroform; CAS RN 67-66-3), 1,1,2-trichloroethane (CAS RN 79-00-5), 1,1-dichloroethylene (CAS RN 75-35-4), 1,1,1-trichloroethane (CAS RN 71-55-6)
- **Chlorofluorocarbons (CFC), Hydrogenated Chlorofluorocarbons (HCFC), Halones**
- **CMR Substances** classified Carcinogens, Mutagens or Toxic to Reproduction Categories 1 and 2 as listed in Regulation 1272/2008/EC
- **Cosmetic:** Prohibited Ingredients as listed in Annex II and III of the Regulation (EC) No 1223/2009 on Cosmetic Product.
- **Cyanuric Acid** (CAS RN 108-80-5)
- **Dimethylfumarate** (CAS RN 624-49-7)
- **Dioxins and Difurans**
- **Endocrine disruptors** as listed in ECHA's endocrine disruptor (ED) assessment list – 08 March 2021
- **Epoxy Derivatives** as listed in Regulation (EC) 1895/2005: 2,2-bis (4-hydroxyphenyl) propane bis (2,3-epoxypropyl) ether (BADGE), bis(hydroxyphenyl) methane bis (2,3-epoxypropyl) ethers (BFDGE) and novolac glycidyl ethers (NOGE)
- **Epoxidized Soya Bean Oil** (ESBO, CAS RN 8013-07-8)
- **Ethanol** (CAS RN 64-17-5)
- **Flame Retardants**, it includes Hexabromocyclododecane (HBCD)
- **Formaldehyde** (CAS RN 50-00-0)
- **Glutens** (CAS RN 8002-80-0)
- **GLYEO** ([3-(2,3-epoxypropoxy)propyl]triethoxysilane, CAS RN 2602-34-8)
- **GLYMO** ([3-(2,3-epoxypropoxy)propyl]trimethoxysilane CAS RN 2530-83-8)
- **Glyoxal** (CAS RN 107-22-2)
- **Glyphosate** (CAS RN 1071-83-6)
- **Halogens** : Fluorine, Chlorine, Bromine, Iodine
- **Isopropylthioxanthone** (ITX, CAS RN 5495-84-1, 83846-86-0)
- **Latex** (Definition: a white, tacky, aqueous suspension of a hydrocarbon polymer occurring naturally in some species of trees, shrubs, or plants, or made synthetically)
- **Medicinal Product** (Definition: A substance or combination of substances that is intended to treat, prevent or diagnose a disease, or to restore, correct or modify physiological functions by exerting a pharmacological, immunological or metabolic action)
- **Melamine** (CAS RN 108-78-1)
- **Metals: Antimony, Arsenic, Barium, Cadmium, Chrome, Cobalt, Copper, Europium, Gadolinium, Iron, Lanthane, lead, Lithium, Magnesium, Managanese, Mercury, Nickel,**

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Potassium, Sodium, Terbium, Zinc. As we do perform tests on The Product or a representative material of it, we can confirm that those metals are not present in a quantity which would give rise to a migration in food or food simulant higher than the values listed in Annex I or II of (EU) No 10/2011 as amended up to 2020/1245, when used under the condition(s) mentioned in our food contact certificate.

- **MOSH** (Mineral Oil Saturated Hydrocarbons), **MOAH** (Mineral Oil Aromatic Hydrocarbons), **Mineral Oil**. However, we inform you that trace amount of Mineral Oil can be present in some of The Product as a manufacturing process residue. This Mineral oil is included in the Union List of the authorized substances for the manufacturing of plastic materials intended to come into contact with food.
- **N-Methylpyrrolidone** (NMP, CAS RN 872-50-4)
- **Nitrocellulose** (EC No 936-908-7)
- **Nonylphenol And Nonylphenoethoxylates** as listed in Regulation 1907/2006/EC Annex XVII
- **Organotin Compounds:** Monobutyltin Cation (MBT), Dibutyltin Cation (DBT), Dioctyl Tin (DOT), Tributyltin Cation (TBT), Triphenyltin Cation (TPT) and Tributyltin Oxide (TBTO)
- **Ozone-Depleting Substances** (Regulation EC 1005/2009; The Montreal Protocol on Substances that deplete the Ozone Layer; Clean Air Act, USA). CFCs, Halons, Other fully halogenated CFCs, Carbon tetrachloride, 1,1,1-Trichloroethane (Methyl chloroform), Hydrochlorofluorocarbons (HCFC), Hydrobromofluorocarbons (HBFC), Methyl bromide, Bromochloromethane.
- **Palm Oil** (CAS RN 8002-75-3)
- **Parabens** as listed in Annex II and V of the Cosmetic Regulation 1223/2009/EC
- **Pentachlorophenol and its salts and esters** as listed in Regulation 1907/2006/EC Annex XVII
- **Perfluorooctane sulfonic Acid and its derivatives (PFOS)** as listed in Regulation (EU) 2019/1021 on Persistent Organic pollutants
- **Perfluorooctanoic acid (PFOA, CAS RN 335-67-1)** and its salts as listed in Entry 68 of Annex XVII of Regulation (EC) No 1907/2006
- **Persistent Organic Pollutants (POP)** as listed in Annex I Part A of The Regulation (EU) 2019/1021
- **Pesticides, Herbicides** as defined in Article 2 of The Regulation (EC) No 1107/2009
- **Phthalates**
- **Polybromobiphenyls** and **polybromodiphenylethers**, this includes penta-, octa- decabromobiphenylethers
- **Polychlorinated biphenyls** (PCB)
- **Polychlorinated Naphtalenes** (PCN)
- **Polychlorinated Terphenyls** (PCT)
- **Polycyclic Aromatic Hydrocarbons (PAH)** as listed in Regulation EC 1907/2006 Annex XVII. We inform you that The Product or a representative material of it was tested using the method AfPS GS 2019:01 PAK and The Product or the representative material of it passed the test.
- **Polystyrene** (CAS RN 9003-53-6, 9003-55-8)
- **Polyvinylchloride (PVC), Vinyl chloride Monomer, Polyvinylidene Chloride (PVDC), Vinylidene Chloride Monomer**
- **Radioactive substances** as defined in Directive 96/29/EURATOM
- **Recycled Materials** as defined in Commission Regulation 282/2008/EC
- **Rosin** (Colophony, CAS RN 8050-09-7)
- **Semicarbazide / Azodicarbonamide** as defined in Directive 2004/1/EC

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- **Short Chained chlorinated Paraffins** as listed in Regulation EC 1907/2006 Annex XVII
- **Silicone** (CAS RN 63148-53-8, 63394-02-5, 90337-93-2, 63148-62-9)
- **Substances from human origin**
- **Thiuram Mix** (contains the following four substances: Tetramethylthiuram monosulfide, Disulfiram, Tetramethylthiuram disulfide, and Dipentamethylenethiuram disulfide)
- **Styrene** (CAS RN 100-42-5)
- **Titanium Acetyl Acetate** (TAA, CAS RN 77927-72-9)
- **2,4,4'-Trichloro-2'-hydrodiphenylether** (Triclosan, CAS RN 3380-34-5)
- **Tris(Nonylphenyl)phosphite** (TNPP, CAS RN 26523-78-4)
- **TSCA Section 6(h) | US EPA** : Phenol, isopropylated, phosphate (3:1) (CAS RN 68937-41-7), Bis(pentabromophenyl) ether (CAS RN 1163-19-5), 2,4,6-tri-tert-butylphenol (CAS RN 732-26-3), Hexachlorobuta-1,3-diene (CAS RN 87-68-3), Pentachlorobenzenethiol (CAS RN 133-49-3)

However, since we do not systematically perform specific test to verify the potential presence of these substances in The Product, we cannot guarantee that there is no trace amount of these substances, as impurity or otherwise, in The Product. Moreover, it cannot be excluded that in specific conditions of processing or incineration certain of the above-mentioned substances might be generated as mentioned in the relevant safety data sheet.

DISCLAIMER

Our Regulatory Information Sheet does not cover:

- any modification of The Product by any addition of any other product to it,
- any prejudicial modification of The Product resulting from a processing of The Product,
- an inadequate use and/or storage of The Product and of the finished articles.

Before using The Product mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use.

Unless specifically indicated, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. Under no circumstances are any products sold by TotalEnergies Refining & Chemicals suitable for human in the following applications: (i) implantable devices intended for human or animal body (ii) Devices intended to be used in contact with internal body fluids (iii) Devices intended to be used in contact with internal body tissues. The Companies within TotalEnergies Refining & Chemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The present Regulatory Information Sheet is based on the status of the legislation at the date written above and is valid until end of November 2023. This publication cancels and supersedes any prior version thereof. In case you need more information, please contact the Sales Representative or contact us at the following e-mail polymers-benelux-adm@totalenergies.com.

We are at your disposal for any further information you may need and remain,

Yours faithfully
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