

**TotalEnergies**

TotalEnergies OneTech Belgium

Refining & Chemicals / Regulatory Affairs

Regulatory Information Sheet
Polystyrene
Produced in Europe**REGULATORY INFORMATION SHEET****Letter: ARP/23L00065****Date: Feluy, February 08, 2023****ALL POLYSTYRENE CRYSTAL and IMPACT (manufactured in EUROPE)***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 an 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 January 05, 2023. The full list can be found here: <https://echa.europa.eu/en/substances-restricted-under-reach>

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 OneTech 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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RoHS II – RoHS III – Directives 2011/65/EU – 2015/863/EU

We hereby inform you that Directive 2011/65/EU (up to amendment (EU) 2022/287) 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) as additive* in The Product.

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

VEGETAL/ANIMAL ORIGIN/TSE
Grades: GPPS 1450N, GPPS 1960N, HIPS 5240

We inform you that the hereabove mentioned products do not contain any additive* from vegetal or animal origin.

Grades: GPPS 1070, GPPS 1160, GPPS 1240, GPPS 1340, GPPS 1540, GPPS 1810, HIPS 3450, HIPS 3630, HIPS 4440, HIPS 6540, HIPS 7240, HIPS 8260

We inform you that the hereabove mentioned products contain one additive* from vegetal or animal origin.

We confirm that we received below indications from our current additive* supplier:

1. The additive* is from Category 3 material (as defined in Article 10 of Regulation (EC) 1069/2009 amending Regulation (EC) 1774/2002).
2. The Manufacturing process of this additive* follows the Note for guidance on minimizing the risk of transmitting animal spongiform encephalopathy agents via human and veterinary medicinal products (EMA/410/01 rev.3).

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

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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.

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).

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, 18th Edition, revised 2020
2. IKEA IOS-MAT-0010, version AA-10911-16, dated 2022-01-10
3. BOSCH NORM N 2580-1, dated 2019-04-09
4. GADSL (Global Automotive Declarable Substance List), Rev 2.0 dated 2022-08-01
5. PHARMACOPOEIA: We inform you that there is no European Pharmacopoeia Monograph relative to Polystyrene.

*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 Regulation (EU) No 10/2011) in the manufacturing of The Product:

- **Adipates**
- **Allergen Substances** as listed in Annex II of Regulation (EU)1169/2011, this includes also the substances causing intolerances as listed in Annex II of Regulation (EU)1169/2011.
- **Allergen Substances or causing intolerances:** Buckwheat, Beef, Pork, Chicken, Gelatins (CAS RN 9000-70-8), Apples, Oranges, Kiwifruit, Yams, Matsutake Mushrooms, Peaches, Banana, Tomatoes, Bee pollen, Propolis (CAS RN 85665-41-4), Royal Jelly, Mango, Pine nuts, Chestnuts, Sulfités, Mustard, Molluscan Shellfish, Lupin, Sesame

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- **Allergenic Fragrances** as listed in Annex II of Directive 2009/48/EC on the Safety of Toys. Also consult the certificate available per grade on our website.
- **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
- **Aspartame** (CAS RN 22839-47-0, 7421-84-3)
- **Azocolorants** as listed in Regulation 1907/2006/EC Annex XVII Appendixes 8 and 9
- **Aziridine** (CAS RN 151-56-4)
- **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)
- **Biocidal Products** as defined in Article 3(1)(a) of the Regulation (EU) 528/2012
- **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)
- **Blood Products** as defined in regulation (EC) No 142/2011
- **Carbon Black** (CAS RN 1333-86-4)
- **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
- **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)

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- **Fluorinated Greenhouse gases** as listed in Annex I of Regulation (EU) No 517/2014
- **Food Allergens** as listed in the Food Allergen Labeling and Consumer Protection Act of 2004: milk, eggs, fish, Crustacean shellfish, tree nuts, peanuts, wheat, and soybeans
- **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)
- **Glycol Ethers from E and P lists**
- **Glyoxal** (CAS RN 107-22-2)
- **Glyphosate** (CAS RN 1071-83-6)
- **Halogens** : Fluorine, Chlorine, Bromine, Iodine
- **Hydroquinone** (CAS RN 123-31-9)
- **Isocyanates**
- **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)
- **Medium Chained Chlorinated Paraffins** as listed in Regulation EC 1907/2006 Annex XIV
- **Melamine** (CAS RN 108-78-1)
- **Metals: Antimony, Arsenic, Barium, Cadmium, Chrome, Cobalt, Copper, Europium, Gadolinium, Iron, Lanthane, lead, Lithium, Magnesium, Manganese, Mercury, Nickel, 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.
- **Mica** (CAS RN 12001-26-2)
- **MOAH** (Mineral Oil Aromatic Hydrocarbons). However, we inform you that some trace amount of MOAH can be present in some of our products.
- **N-Ethyl-o(or p)-toluenesulphonamide** (NETSA, CAS RN 8047-99-2)
- **N-Methylpyrrolidone** (NMP, CAS RN 872-50-4)
- **Nanomaterials** (as defined in Commission Recommendation 2011/696/EU of October 18, 2011)
- **Nitrites**
- **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.
- **Oxo-degradable substances.** We can confirm that *The Product* doesn't fulfil the definition of oxo-degradable plastic as defined in the Directive (EU) 2019/904 of the European Parliament and of the Council of 5 June 2019 on the reduction of the impact of certain plastic products on the environment.

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Tél. : +32 (0)64 51 41 11 – E-mail : research-feluy@totalenergies.com

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- **Palm Oil** (CAS RN 8002-75-3)
- **Parabens** as listed in Annex II and V of the Cosmetic Regulation 1223/2009/EC
- **Per- and PolyFluoroAlkyl Substances (PFAS)**. PFAS are a group of organic substances containing alkyl groups on which all or many of the hydrogen atoms have been replaced with fluorine as structural fragments.
- **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
- **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
- **Resorcinol** (1,3-benzenediol, CAS RN 108-46-3)
- **Rosin** (Colophony, CAS RN 8050-09-7)
- **Semicarbazide / Azodicarbonamide** as defined in Directive 2004/1/EC
- **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)
- **Titanium Acetyl Acetate** (TAA, CAS RN 77927-72-9)
- **Titanium Dioxide** (CAS RN 13463-67-7)
- **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.

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Please note that you may also find information to the presence/absence of substances in our other documents like our Certificates for food contact applications (in Europe, Mercosur, China, Swiss), in our certificate for Toys application or in our SVCH statement. Those certificates include information related to substances which are under restrictions under the corresponding regulations. You may find those certificates on the website of TotalEnergies.

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 May 2025. 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
TotalEnergies OneTech Belgium