

Refining & Chemicals

 Total Research & Technology Feluy
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 Certificate N° BM/SLI/18L00005
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Letter: JT/SLI/18L00005

Feluy, 09/01/2018

ALL POLYSTYRENE CRYSTAL and IMPACT (manufactured in EUROPE)
PRODUCT STEWARDSHIP CERTIFICATE
A. Absence of Substances

We hereby confirm that we do not intentionally use the following substances as additive* in the manufacturing of the above-mentioned Products:

| | | |
|----|---|--|
| 1 | ALLERGEN SUBSTANCES as listed in Directive 2007/68/EC and in Annex II of Regulation (EU)1169/2011 | |
| 2 | ANTIMONY TRIOXIDE | Cas N° 1309-64-4 |
| 3 | AROMATIC AMINES as listed in Regulation 1907/2006/EC Annex XVII Appendix 8 | Replaces Directive 2002/61/EC (19th amendment of Directive 76/769/EEC). |
| 4 | ASBESTOS as listed in Regulation 1907/2006/EC Annex XVII | Replaces Directive 2003/18/EC (amending Council Directive 83/477/EC). |
| 5 | AZOCOLORANTS as listed in Regulation 1907/2006/EC Annex XVII Appendixes 8 and 9 | Replaces Directive 2002/61/EC (19th amendment of Directive 76/769/EEC). |
| 6 | BENZOPHENONE DERIVATIVES | We mean the following substances by benzophenone derivatives: Benzophenone (CAS No 119-61-9), 2-hydroxybenzophenone (CAS No 117-99-7), 3-hydroxybenzophenone (CAS No 13020-57-0), 4-hydroxybenzophenone (CAS No 1137-42-4), 4-methylbenzophenone (CAS No 134-84-9). |
| 7 | BHA (ter-butyl-4- hydroxyanisole) | CAS No 25013-16-5 |
| 8 | BHT (2,6-di-ter-butyl-p-cresol) | CAS No 128-37-0 |
| 9 | BIOCIDES As defined in Article 3(1)(a) of the Regulation (EU) 528/2012 | We can hereby confirm that we do not intentionally incorporate any biocidal products as additive* in the hereabove mentioned products. |
| 10 | BISPHENOL A, BISPHENOL F and BISPHENOL S | CAS No 80-05-7, CAS No 620-92-8 and CAS No 80-09-1 |

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| 11 | CHLORINATED ALIPHATIC COMPOUNDS | We mean the following substances by chlorinated aliphatic compounds: tetrachloromethane (CAS No 56-23-5), 1,1,2,2-tetrachloroethane (CAS No 79-34-5), 1,1,1,2-tetrachloroethane (CAS No: 630-20-6), pentachloroethane (CAS No 76-01-7), trichloromethane (chloroform; CAS No 67-66-3), 1,1,2-trichloroethane (CAS No 79-00-5), 1,1-dichloroethylene (CAS No 75-35-4), 1,1,1-trichloroethane (CAS No 71-55-6). |
| 12 | CHLOROFLUOROCARBONS (CFC), HCFC AND HALONES | |
| 13 | CMR SUBSTANCES as listed in Regulation 1272/2008/EC Annex VI | We can hereby confirm that we do not use substances classified Carcinogens, Mutagens or toxic to Reproduction categories 1 and 2 as listed in Regulation 1272/2008/EC, as additive*. |
| 14 | CONFLICT MINERALS (Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Act) | We can hereby confirm that we do not use the following conflict minerals as additive*: cassiterite, columbite-tantalite, wolframite, tin, tantalum, tungsten and gold |
| 15 | DIMETHYLFUMARATE Directive 2009/251/EC | CAS No 624-49-7 |
| 16 | DIOXINS AND DIFURANS | |
| 17 | ENDOCRINE DISRUPTORS category I and II mentioned in Annex 13 of the final report of BKH STUDY 2000 | We can hereby confirm that we do not use any of the 118 chemicals category I (evidence of Endocrine disrupting activity) and category II (chemicals showed some evidence suggesting potential activity) mentioned in Annex 13 of the final report of BKH STUDY 2000, as additive*. |
| 18 | EPOXY DERIVATIVES - Article 1 of directive 2002/16/EC amended by Directive 2004/13/EC - Regulation 1895/2005/EC | 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') |
| 19 | ESBO (Epoxidized Soya Bean Oil) | CAS No 8013-07-8 |
| 20 | FLAME RETARDANTS | |
| 21 | FORMALDEHYDE | CAS No 50-00-0 |
| 22 | HALOGENS | Elemental Fluorine, Chlorine, Bromine or Iodine |
| 23 | HEAVY METALS Directive 94/62/EC and Directive 2004/12/EC | The overall concentration of cadmium, mercury, lead and chromium is lower than 100 ppm (w/w). |
| 24 | ISOPROPYLTHIOXANTHONE (ITX) | CAS No 5495-84-1 and CAS No 83846-86-0 |
| 25 | LATEX | We mean the following by latex: "a white, tacky, aqueous suspension of a hydrocarbon polymer occurring naturally in some species of trees, shrubs, or plants, or made synthetically". |

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Under no circumstances are any products sold by Total 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 Total 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.

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| 26 | MELAMINE and CYANURIC ACID | CAS No 108-78-1 CAS No 108-80-5 |
| 27 | N_METHYLPYRROLIDONE (NMP) | CAS No 872-50-4 |
| 28 | NONYLPHENOL AND NONYLPHENOLETHOXYLATES as listed in Regulation 1907/2006/EC Annex XVII | Replaces Directive 2003/53/EC (26th amendment of Directive 76/69/EEC). |
| 29 | ORGANOTIN COMPOUNDS as listed in Commission Decision 2009/425/EC | We mean the following substances by organotin compounds: Monobutyltin Cation (MBT), Dibutyltin Cation (DBT), Dioctyl Tin (DOT), Tributyltin Cation (TBT), Triphenyltin Cation (TPT) and Tributyltin Oxide (TBTO). |
| 30 | OZONE-DEPLETING SUBSTANCES - Regulation 1005/2009/EC - The Montreal Protocol on Substances that deplete the Ozone Layer, as last adjusted and/or amended in Beijing 9-1999 (UNEP-United Nation Environment Program) - The United States (Clean Air Act, as amended in 1990, title VI, section 602 (a), class I and II. | CFCs, Halons, Other fully halogenated CFCs, Carbon tetrachloride, 1,1,1-Trichloroethane (Methyl chloroform), Hydrochlorofluorocarbons (HCFC), Hydrobromofluorocarbons (HBFC), Methyl bromide, Bromochloromethane. |
| 31 | PERFLUOROCTANE SULFONATE (PFOS) AND PERFLUOROCTANOIC ACID (PFOA) as listed in Regulation 1907/2006/EC Annex XVII | Replaces Directive 2006/122/EC (30th amendment of Directive 76/769/EEC). |
| 32 | PESTICIDES, HERBICIDES as listed in Directive 91/414/EC | To the best of our knowledge, we do not use (as an additive as defined in Directive 2002/72/EC, Annex III) any pesticides and herbicides that: <ul style="list-style-type: none"> - protect plants or plant products against all harmful organisms or prevent the action of such organisms, in so far as such substances - influence the life processes of plants, other than a nutrient (e.g. growth regulators); - preserve plant products, in so far as such substances or products are not subject to special Council of Commission provisions on reservatives; - destroy undesired plants; or - destroy parts of plants, check or prevent undesired growth of plants; in the finished article |
| 33 | PHTHALATES | |

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| 34 | POLYBROMOBIPHENYLS and POLYBROMODIPHENYLEETHERS - Regulation 1907/2006/EC Annex XVII - Directive 2002/96/EC - Directive 2002/95/EC - Directive 2011/65/EU - Directive 2015/863/EU | Regulation 1907/2006/EC replaces Directive 2003/11/EC (24 th amendment of Directive 76/769/EEC) This includes penta-, octa-, decabromobiphenylethers. |
| 35 | POLYCHLORINATED BIPHENYLS (PCB) | |
| 36 | POLYCHLORINATED NAPHTALENES (PCN) | |
| 37 | POLYCHLORINATED TERPHENYLS (PCT) | |
| 38 | POLYCYCLIC AROMATIC HYDROCARBONS (PAH) as listed in Regulation 1907/2006/EC Annex XVII amended by Regulation (EU) 1272/2013 and Regulation (EU) 2015/326 | Replaces Directive 2005/69/EC (27th amendment to Directive 76/769/EC). |
| 39 | POLYVINYLCHLORIDE (PVC) and VINYLCHLORIDE MONOMER | |
| 40 | RADIOACTIVE SUBSTANCES as defined in Directive 96/29/EURATOM | Laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation. |
| 41 | RECYCLED MATERIALS | Following definition of Commission Regulation 282/2008/EC. |
| 42 | SEMICARBAZIDE / AZODICARBONAMIDE as defined in Directive 2004/1/EC | |
| 43 | SHORT CHAINED CHLORINATED PARAFFINS as listed in Regulation 1907/2006/EC Annex XVII | Replaces Directive 2002/45/EC (20th amendment of Directive 76/769/EEC). |
| 44 | SILICONE | CAS No 63148-53-8, 63394-02-5, 90337-93-2, 63148-62-9 |
| 45 | TITANIUM ACETYL ACETONATE (TAA) | CAS No 77927-72-9 |
| 46 | 2,4,4'-TRICHLORO-2'-HYDROXYDIPHENYL ETHER (TRICLOSAN) | CAS No 3380-34-5 |
| 47 | TRIS(NONYLPHENYL) PHOSPHITE (TNPP) | CAS No 26523-78-4 |

* Additive as defined in Regulation (EU) 10/2011

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However, since we do not systematically perform specific test to verify the potential presence of these substances in the above-mentioned Products, we cannot guarantee that there is no trace amount of these substances, as impurity or otherwise, in the above-mentioned Products. 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.

B. Compliance with Regulations

We can hereby confirm that the above-mentioned products comply with the requirements of the following regulations:

1. CONEG: (Coalition of the Northeastern Governors (CONEG, USA) because the overall concentration of cadmium, mercury, lead and chromium is lower than 100 ppm (w/w).

2. DIRECTIVE 76/769/EC AND REACH ANNEX XVII: Directive 76/769/EC relating to restrictions on the marketing and use of certain dangerous substances and preparations, established in its Annex I restrictions for certain dangerous substances and preparations. Regulation 1907/2006/EC (Reach Regulation) repealed and replaced Directive 76/769/EC from 1 June 2009 onwards. Annex XVII, published as Regulation 552/2009/EC amending Regulation 1907/2006/EC, replaces Annex I to Directive 76/769/EC. We herewith confirm that the above-mentioned Products comply with Regulation 552/2009/EC.

3. ELECTRIC AND ELECTRONIC EQUIPMENT: Directives 2002/95/EC , 2011/65/EC and 2015/863/EU do not cover our Polystyrenes as “raw materials” but only apply to the “electrical and electronic equipment” as finished products defined in the Annex IA under categories 1,2,3,4,5,6,7 and 10 of the European Directive 2002/96/EC. Nevertheless, we hereby confirm that neither polybromo biphenyls (PBB) nor polybromo diphenylethers (PBDE) 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 enclosed.

4. PACKAGING WASTE DIRECTIVE: We hereby confirm that the above-mentioned Products comply with Directive 94/62/EC and Directive 2004/12/EC on Packaging Waste with respect to the heavy metals content limit because the overall concentration of cadmium, mercury, lead and chromium is lower than 100 ppm (w/w) to be checked for other requirements.

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5. END OF LIFE VEHICLES: We hereby confirm that this product complies with the Directive 2000/53/EC (up to amendment 2011/37/EU) 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.

6. RoHS and WEEE: We hereby inform you that Directive 2002/95/EC (on the Restriction of the use of certain Hazardous Substances: RoHS) and Directives 2011/65/EC and 2015/863/EU do not cover the above-mentioned Products as "raw materials" but only apply to the "electrical and electronic equipment" as finished products defined in the Annex IA under categories 1,2,3,4,5,6,7 and 10 of the European Directive 2002/96/EC (on Waste Electrical and Electronic Equipment: WEEE). Nevertheless, we hereby confirm that neither the flame retardants polybromo biphenyls (PBB) nor polybromodiphenylethers (PBDE) are used (this includes penta-, octa-, decabromodiphenylethers) 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.

7. GENETICALLY MODIFIED ORGANISMS: We hereby confirm that we received confirmation of our suppliers of additives* used in the above mentioned products mentioning the absence of genetically modified organisms (GMO).

*Additive as defined in Article 3 of the Commission Regulation (EU) No 10/2011

8. HALAL/KOSHER: We inform you that the above-mentioned products have not received Halal/Kosher certification.

9. SAFETY DATA SHEETS (Regulation 1907/2006/EC): We recommend before using the above-mentioned Products to carefully read the Safety Data Sheets which can be downloaded from the website: <http://www.totalrefiningchemicals.com>. Our customers receive automatically a Safety Data Sheet after their first order and when they make a new order after a period that is longer than 12 months. They will also receive automatically a Safety Data Sheet when modifications have been made.

C. 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 here above mentioned products are plastics and we therefore made reference to the respective parts of these norms and standards.

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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 here above mentioned products as impurities or otherwise.

*Additive as defined in Article 3 of the Commission Regulation (EU) No 10/2011

1. **SONY TECHNICAL STANDARDS** SS-00259, 14th Edition, revised 2015-07-01
2. **IKEA IOS-MAT-0010**, version AA-10911-13, dated 2015-11-13
3. **BOSCH NORM** N 2580-1, dated 2015-07-10
4. **GADSL** (Global Automotive Declarable Substance List)-2016
5. **PHARMACOPOEIA**: We inform you that there is no European Pharmacopoeia Monograph relative to Polystyrene.

Our certificate 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.

The present certificate is based on the status of the legislation at the date written above and is valid until **July 2019**. It can be renewed upon request.

All EC Regulations can be downloaded or requested free of charge on the following internet site: <http://eur-lex.europa.eu/fr/index.htm>

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

Yours faithfully,
Total Research & Technology Feluy

B. MYCKE
Regulatory Affairs

F. WYLIN
Regulatory Affairs, Manager

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