

Letter : JT/CdA/12L0325

Feluy, April 4th 2012

PRODUCT STEWARDSHIP CERTIFICATE

ALL LOTRENE LDPE and LLDPE PRODUCTS

A. ABSENCE OF SUBSTANCES.

We hereby confirm that we do not use the following substances as additive as defined in Article 3 and that would justify a listing in Annex I of the Commission Regulation (EU) No 10/2011:

1	ALLERGEN SUBSTANCES as listed in Directive 2007/68/EC	
2	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).
3	ASBESTOS as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 2003/18/EC (amending Council Directive 83/477/EC)
4	AZOCOLORANTS as listed in Regulation 1907/2006 Annex XVII Appendixes 8 and 9	Replaces Directive 2002/61/EC (19 th amendment of Directive 76/769/EEC).
5	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),
6	BIOCIDES as listed in Annex I of the Directive 98/8/EC, as consolidated on 11.10.2011	To the best of our knowledge, we do not use (as an additive as defined in Article 3 of the Commission Regulation (EU) No 10/2011)) any biocidal substance that would destroy, deter, render harmless, prevent the action of, or otherwise exert a controlling effect on any harmful organism by chemical or biological means in the finished article.
7	BISPHENOL A and BISPHENOL F	CAS No 80-05-7 and CAS No 620-92-8
8	BHA (ter-Butyl-4-hydroxyanisole)	CAS No 25013-16-5
9	BHT (2,6-di-ter-butyl-p-cresol)	CAS No 128-37-0
10	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).
11	CHLOROFLUOROCARBONS (CFC), HYDROGENATED CHLOROFLUOROCARBONS (HCFC) AND HALONES	

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12	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 as defined in Article 3 of the Commission Regulation (EU) No 10/2011.
13	DIMETHYLFUMARATE Directive 2009/251/EC	CAS No 624-49-7
14	DIOXINS AND DIFURANS	
15	EPOXIDIZED SOYA BEAN OIL (ESBO)	CAS No 8013-07-8
16	EPOXY DERIVATIVES 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')
17	ETHANOL	CAS No 64-17-5
18	FORMALDEHYDE	CAS No 50-00-0
19	HALOGENS	Fluorine (CAS No 7782-41-4), Chlorine (CAS No 7782-50-5), Bromine (CAS No 7726-95-6), Iodine (CAS No 7553-56-2)
20	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).
21	ISOPROPYLTHIOXANTHONE (ITX)	CAS No 5495-84-1 and CAS No 83846-86-0
22	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".
23	MELAMINE and CYANURIC ACID	CAS No 108-78-1 CAS No 108-80-5
24	NONYLPHENOL AND NONYLPHENOETHOXYLATES as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 2003/53/EC (26th amendment of Directive 76/769/EEC).
25	ORGANOTIN COMPOUNDS as listed in Commission Decision 2009/425/EC of 28 May 2009	We mean the following substances by organotin compounds : Monobutyltin Compounds (MBT), Dibutyltin Compounds (DBT), Dioctyl Tin Compounds (DOT), Tributyltin Compounds (TBTT), Triphenyltin Compounds (TPT) and Tributyltin Oxide (TBTO)
26	OZONE-DEPLETING SUBSTANCES - Regulation 2037/2000/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.
27	PENTACHLOROPHENOL as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 1999/51/EC
28	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)
29	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 Article 3 of the Commission Regulation (EU) No 10/2011) any pesticides and herbicides that: -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 preservatives; -destroy undesired plants; or -destroy parts of plants, check or prevent undesired growth of plants; in the finished article



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30	PHTHALATES as listed in Decision 99/815/EC, Decision 2004/781/EC and Regulation 1907/2006/EC	Diisononyl phthalate (DINP), Di(2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP), Diisodecyl phthalate (DIDP), Di-n-octyl phthalate (DNOP), Butylbenzyl phthalate (BBP) and also Diethyl phthalate (DEP), Di(2-methoxyethyl) phthalate (DMEP), Dipentyl phthalate (DNPP), Diisopentyl phthalate (DIPP), Diisooctyl phthalate (DIOP) , mono-n-pentyl phthalate (MPP)
31	POLYBROMOBIPHENYLS and POLYBROMODIPHENYLETHERS - Regulation 1907/2006/EC Annex XVII - Directive 2002/96/EC - Directive 2002/95/EC, Directive 2011/65/EU	Regulation 1907/2006/EC replaces Directive 2003/11/EC (24th amendment of Directive 76/769/EEC) This includes penta-, octa-, decabromobiphenylethers.
32	POLYCHLORINATED BIPHENYLS (PCB)	
33	POLYCHLORINATED NAPHTALENES (PCN)	
34	POLYCHLORINATED TERPHENYLS (PCT)	
35	POLYCYCLIC AROMATIC HYDROCARBONS (PAH) as listed in Regulation 1907/2006/EC Annex XVII	Replaces Directive 2005/69/EC (27th amendment to Directive 76/769/EC).
36	POLYVINYLCHLORIDE (PVC) and VINYLCHLORIDE MONOMER	
37	PROPOSITION 65, NOVEMBER 18, 2011	Chemicals listed in the Proposition 65, California Safe Drinking Water and Toxic Enforcement Act of 1986, dated November 18, 2011 (chemicals list that you can find at the following web address : http://www.oehha.org/prop65/prop65_list/Newlist.html). We can hereby confirm that we do not use the chemicals mentioned in this list as additive (as defined in Article 3 of the Commission Regulation (EU) No 10/2011).
38	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.
39	RECYCLED MATERIALS	Following definition of Commission Regulation 282/2008/EC
40	SEMICARBAZIDE and AZODICARBONAMIDE as defined in Directive 2004/1/EC	
41	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)
42	TITANIUM ACETYL ACETONATE (TAA)	CAS No 77927-72-9

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 can not 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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B. COMPLIANCE WITH REGULATIONS

CONEG (Coalition of the North-eastern Governors (CONEG, USA) the above-mentioned Products meet the requirements of less than 100ppm overall concentration of cadmium, mercury, lead and chromium

DECRET 2007-1467 (Article 4) and ENVIRONMENTAL CODE (book V-title IV-chapter III-section V)-dated on 10 November 2008

We inform you that the "Décret" 98-638 is repealed by article 4 of the French "Décret" 2007-1467 (dated 12 October 2007). We hereby certify that the above-mentioned Products meet the requirements of the article R543-44 item 2b and article R543-45 of Environmental Code (book V) imposing to take into account environmental requirements in the conception and in the manufacturing of packaging material as far as the following articles are concerned:

Article R 543-44 - item 2 (b):

- the above mentioned Products are intended for the manufacture of packaging materials;
- the above-mentioned Products are recyclable by melting and pelletizing;
- the above-mentioned Products have a heat of combustion sufficient to enable to optimize energy recovery (*).

Article R 543-45:

The total of the concentrations of lead + cadmium + mercury + hexavalent chromium does not exceed 100 ppm.

We kindly remind you that the above-mentioned articles of the Code concern the packaging material as end product, for which we cannot provide any guarantee.

(*) The control of the combustion conditions and the technical measures related thereto cannot be controlled by the manufacturer of the above-mentioned Products and thus do not fall within his responsibility."

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.

END OF LIFE VEHICLES Directive: We hereby confirm that the above-mentioned Products comply with the Directive 2000/53/EC on end of life of 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.

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.

RoHS and WEEE : We hereby inform you that Directive 2002/95/EC and Directive 2011/65/EU (on the Restriction of the use of certain Hazardous Substances: RoHS) does not cover the above-mentioned Products as "raw materials" but it only applies 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.



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Our certificate does not cover :

- any modification of the above-mentioned Products by any addition of any other product to it,
- any prejudicial modification of the above-mentioned Products resulting from its processing,
- an inadequate use and/or storage of the above-mentioned Products 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 **June 2013**.
It can be renewed upon request.

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

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

Yours faithfully
TOTAL PETROCHEMICALS RESEARCH FELUY

J. TUTI
Regulatory Affairs

F. WYLIN
Regulatory Affairs, Manager



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