

Canovelles, september 2024

The company Mercantil Luz Negra, S.L. with registrated office in
C/Carles Buhigues 13, Polígono Industrial Can Castells, 08420 Canovelles (Barcelona, Spain)

CERTIFIES

that the following products have undergone the relevant technical tests and are proved satisfactory according to the regulations in force (data issued by the product manufacturer):

Product reference: **13.019 - 13.034**
Product name: **led profile Oslo 38**

REACH certificate

- Status: the above mentioned product is a preparation based on polymers. According to Article 2(9) of REACH Regulation (EC) no. 1907/2006, polymers are exempted from REACH registration.

We inform you that we questioned our suppliers about pre-registration of the raw materials we buy from them and about their intention to register in order to pursue the commercialization of our products in compliance with REACH regulation.

- Annex XVII: annex XVII published as regulation 552/2009/EC amending REACH regulation 1907/2006/EC establishes the restrictions on the manufacture, marketing and use of certain dangerous substances and/or preparations.

The above mentioned product complies with the requirements of REACH Annex XVII and amendments.

- SVHC - Substances of Very High Concern: substances that are listed in the Candidate List of SVHC available on the ECHA website at the delivery date of this statement: (<https://echa.europa.eu/candidate-list-table>) are not used for the manufacture of the above mentioned product. Therefore, their presence is not expected.

RoHS certificate

Directive:
2011/65/UE

EUROPE

- We confirm that the products fulfill Annex II of the RoHS-regulation 2011/65/EC (replaces 2002/95/EC, the amendment 2008/35/EC inclusive decision of commission 2009/443/EC) and EU RoHS 2 (EU) 2015/863, which refers to Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE).
- They do neither contain the heavy metals Cd (100 ppm max), Pb (1000 ppm max), Hg (1000 ppm max), Cr+6 (1000 ppm max) nor the flame retardants PBB, PBDE, PCP, PFOS, TBTO, Deca-BDE or plasticizers as DEHP, BBP, DBP, DIBP or any radioactive substances or arsenic, beryllium, bismuth, nickel, selenium, thallium or formaldehyde in more than the omnipresent traces.
- The restriction of DEHP, BBP and DBP shall not apply to toys which are already subject to the restriction of DEHP, BBP and DBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

PBT Statement under TSCA Work Plan

- Under the TSCA Work Plan (TSCA, Section 6(h)) the following substances were evaluated as PBT and on February, 5th, 2021 five new rules were issued by EPA.

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We hereby confirm that the products do not contain any kind of the following substances:

Chemical name	CAS no.
Decabromdiphenylether (DecaBDE)	1163-19-5
Isopropylphenyl phosphate (PIP 3:1)	68937-41-7
2,4,6-tritert-butylphenol (2,4,6- TTBP)	732-26-3
Hexachlorobuta-1,3-diene (HCBD)	87-68-3
Pentachlorobenzenethiol (PCTP)	133-49-3

The above-mentioned chemical substances are neither used in the manufacturing process of the products nor as additive.

Volatile Organic Compound (VOC) Statement

- We confirm that the products do not contain any solvents.

WEEE-directive, ElektroG

- The products comply with the Directive 2012/19/EU = WEEE – Waste Electrical and Electronic Equipment (13th Aug. 2012) limitation in electrical and electronic appliances = ElektroG/ElektroG2-German Regulation for electrical and electronic appliances, (15th October 2018).

Specific Ingredients Regulations / Statements

- Alkylphenoethoxylate Statement: We confirm that the products do not contain APEO (Alkylphenoethoxylate) in more than the omnipresent traces.
- Asbestos/Dioxins Statement: The products and starting raw materials as well as associated packaging, do not contain any asbestos or dioxins.
- Azocolourants and Azodyes Statement: We confirm that the products do fulfill Annex XVII of the Regulation (EC) No 1907/2006). The products do neither contain any azocolourants nor azodyes in more than the omnipresent traces.
- Benzene Statement: Benzene is not used in the manufacturing process and therefore the products do not contain any benzene.
- Biocide Statement: The products do not contain any biocidal active substances.
- Bisphenol Statement: We confirm that the products do not contain the following substances in more than the omnipresent traces:

Bisphenol A (BPA)	CAS: 80-05-7
Bisphenol F (BPF)	CAS: 620-92-8
Bisphenol S (BPS)	CAS: 80-09-1
Bisphenol-A-diglycidylether (BADGE)	CAS: 1675-54-3
Bisphenol-F-diglycidylether (BFDGE)	CAS: 39817-09-9
Novolac glycidylether (NOGE)	

Cobalt Statement

- We confirm that the products do not contain any cobalt compounds in more than omnipresent traces.

DOT (di organic tin compounds) - Statement

- We confirm that the products fulfill Annex XVII of the Regulation 276/2010 (amending Regulation (EC) No 1907/2006). The product does not contain organostannic compounds.

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Heavy Metal Statement / Conflict Minerals

- We confirm that the products do not contain any heavy metal compounds or conflict minerals in more than the omnipresent traces.

Nano Statement

- The products do not contain any nano-materials as defined by the European Commission. Registrations according to national laws are not required.

Organic Halogen Statement

- We confirm that the products do not contain any halogenated organic compounds in more than omnipresent traces.

Organostannic Compounds

- We confirm that the products fulfill Annex XVII of the Regulation 276/2010 (amending Regulation (EC) No 1907/2006). The products do not contain any organostannic compounds such as Tributyltin (TBT), Triphenyltin (TPT), Dibutyltin (DBT) and Dioctyltin (DOT) in more than omnipresent traces.

Ozone Depleting Substances (ODS) Statement

The products do not contain any ozone depleting substances according to the Montreal Protocol.

- POP Regulation Statement: we hereby confirm that the above mentioned products do not contain persistent organic pollutants according to REGULATION (EU) 2019/1021 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 20th June 2019 on persistent organic pollutants, listed in Annex I to IV and its current amendment EU 2020/784 regarding Perfluorooctanoic acid (PFOA), its salts or PFOA-related substances and COMMISSION DELEGATED REGULATION (EU) 2021/ 277 on persistent organic pollutants as regards pentachlorophenol and its salts and esters

However, we want to point out that the products are not tested with respect to the mentioned substances listed in Annex I to IV of these regulations.

- PAH Statement: we further confirm that the products do not contain any polycyclic aromatic hydrocarbons (PAH's) in more than omnipresent traces.
- PFAS Statement: we confirm that PFAS, PFOS, PFOA or PFOA-related substances have not been intentionally used in the manufacturing of our products. However, we want to point out that the products are not tested with respect to the mentioned substances.
- Polyphthalamide: polyphthalamide is not used in the manufacturing process of the products and therefore they do not contain any Polyphthalamide.
- ELV Directive: the products comply with Commission Directive (EU) 2018/849 and (EU) 2016/774 of 18 May 2016 amending Annex II to Directive 2000/53/EC of the European Parliament and of the Council on end-of-life vehicles.
- Global Automotive Declarable List Statement: the products comply with the requirements of 2022 Global Automotive Declarable Substance List [GADSL] version (February 2022).

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- Phthalate Statement: to the best of our knowledge the products, the raw materials or all other materials used in the manufacturing process do not contain the following substances:

Diisobutyl phthalate (DIBP)	CAS-No. 84-69-5
Dibutyl phthalate (DBP)	CAS-No. 84-74-2
Bis(2-ethylhexyl)phthalate(DEHP)	CAS-No. 117-81-7
Dihexyl phthalate (DHP)	CAS-No. 84-75-3
Dicyclohexyl phthalate (DCHP)	CAS-No. 84-61-7
Benzylbutylphthalate (BBP)	CAS-No. 85-68-7
Diisononylphthalate (DINP)	CAS-No. 28553-12-0 and 68515-48-0
Diisodecylphthalate (DIDP)	CAS-No. 26761-40-0 and 68515-49-1
Di-n-octyl-phthalate (DNOP)	CAS-No. 117-84-0

The above-mentioned substances including further phthalate derivatives are not added during the manufacturing process. A formation of the above-mentioned substances during synthesis is unlikely. However, we want to point out that the products are not tested with respect to these substances.

Ionising Radiation / Irradiation / ETO Statement

The products are not treated by ionizing radiation according to Directive 1999/2/EC and amendments concerning food and food ingredients.

The products are not sterilized by radiation or treated with Ethylene Oxide (EO) at any point of our manufacturing process.

- Jatropha Plant / Palm Oil Statement: for the manufacture of the products, only synthetic raw materials are used.
- Kosher Statement: the products are not Kosher certified.
- TSE / BSE statement:
 - We confirm that the products are produced solely from synthetic raw materials, and no material used in the manufacture is of bovine or animal origin.
 - We further confirm that no materials of animal origin are present at any time during production or are used for production in the same plant.
 - Therefore, with regards to the conditions of our production process and the raw materials used, the BSE/TSE risk is, according to our knowledge, not considered as relevant.

Flame rating PMMA tube:

- Fire rating (Ignition characteristics):

Test Method UL 94	Flame rating – UL HB
Test Method DIN 4102	Flame rating B2

Glow wire ignition temperature °C IEC 695-2-12 (2mm) 700°C (750°C start to get some inflammation).

UV aging:

UV aging behavior:

The UV aging behavior has been controlled during accelerated UV aging according to the standard En 513: 1999 (method 2 'Hot climate conditions'). In the building industry, 4000 hours is considered as 10 years of use in natural conditions.

Time (h.)	L	a	b	DE	Gloss 60°	Gloss ret 60°
0	95.59	1.22	1.37	0	3.8	
581	95.44	1.19	1.35	0.16	3.8	100.0
1011	95.32	1.13	1.6	0.25	3.9	102.6
1535	95.34	1.19	1.65	0.29	3.4	89.5
1973	95.18	1.2	1.86	0.5	3.2	84.2
2409	95.18	1.17	2.15	0.8	3.0	78.9
2968	95.18	1.19	2.22	0.86	2.9	76.3
3293	95.16	1.19	2.4	1.01	3.2	84.2
3926	95.27	1.17	2.27	0.91	3.3	86.8

In practice there is not serious change on the appearance of the tube 1104.938.L5 even after 4000 hours continuous working.

The product described has been tested according to the standards listed above. It is possible to use the CE marking.

The certificate is issued under the responsibility of the manufacturer (data issued by the manufacturer). For the record and at request of the interested party, this certificate has been issued.



Nuño Téllez
CEO



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