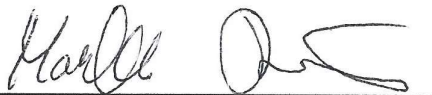


Polar Electro Environmental Declaration 10.0

Kempele 07.08.2020



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Table of contents

| | | |
|-----|---|----|
| 1 | Introduction | 2 |
| 2 | Scope | 2 |
| 3 | Company environmental profile | 3 |
| 4 | Product environmental attributes | 5 |
| 5 | Compliance with regulatory requirements | 9 |
| 5.1 | RoHS | 9 |
| 5.2 | China RoHS..... | 9 |
| 5.3 | WEEE | 9 |
| 5.4 | Battery and Accumulator directive..... | 9 |
| 5.5 | Reach | 9 |
| 5.6 | ErP..... | 10 |
| 5.7 | Packaging and packaging Waste | 10 |

1 Introduction

This declaration is based on the recommendations of ECMA 370 standard (European Computer Manufacturer's Association, The Eco Declaration standard 370, www.ecma-international.org). ECMA 370 is a guideline standard giving a harmonized method for companies to declare the environmental impacts of their products. Polar Electro has taken the freedom to modify the Ecma-370 forms to match better with the company specific needs.


Polar Electro's declaration is substantially depending on the formal declarations given/published by the material vendors.

2 Scope

| | |
|--|--|
| Chapter 3, Company Environmental Profile | This covers all Polar Electro products including standard products and technology modules (OEM products). |
| Chapter 4, Product Environmental attributes | This covers Polar Electro's standard Heart Rate Monitoring and Activity Monitoring products listed on Polar Electro's Internet site (www.polar.com) except Team Sports and Club Solution products. Technology modules (OEM products) are not covered. |
| Chapter 5, Compliance with regulatory requirements | This covers all Polar Electro products including standard products and technology modules (OEM products). |



3 Company environmental profile

| | | |
|-------------------------------|--|---|
| Brand | Polar |  |
| Company name * | Polar Electro Oy | |
| Contact information * | Markku Räinen, Senior Manager, Quality Professorintie 5 90440 Kempele, Finland markku.raina@polar.com | |
| Internet site * | www.polar.com | |
| Intended market * | <input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Japan <input type="checkbox"/> U.S. <input type="checkbox"/> Other | |
| Additional information | | |

| Quality control | | Requirement met | |
|-----------------|---|-------------------------------------|-------------------------------------|
| Item | Additional information regarding each item may be found under C6. | True | False |
| QC1 | The company enforces an internal quality control system to ensure the correctness of this eco declaration | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| QC2 | The company is a member of an eco declaration system that enforces regular independent quality control. | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Company environmental profile - Legal requirements | | Requirement met | | |
|--|---|-------------------------------------|--------------------------|------|
| Item | | True | False | n.a. |
| C1.1 | The company participates in a system or has its own system for collection and recycling of end of life products in countries where the company puts them on the market and where required (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C2.1 | The company participates in a system or has its own system for collection and recycling of batteries in countries where the company puts products on the market (see legal reference) or pays eco tax / fee where required. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C3.1 | The company participates in a system or has its own system for collection and recycling of packaging material in countries where the company puts products on the market and where required (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| Company environmental profile - Market requirements | | Requirement met | | |
|---|--|-------------------------------------|-------------------------------------|--------------------------|
| Item | | True | False | n.a. |
| C4.1 | The company has a documented environmental policy approved by the management. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C4.2 | The company has an environmental management system covering: Product development Manufacturing If so certified according to: <input type="checkbox"/> ISO 14001 <input type="checkbox"/> EMAS <input type="checkbox"/> Other as specified in C6 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| C4.3 | The company regularly publishes an environmental report. If so, it meets the recommendations of <input type="checkbox"/> The Global Reporting Initiative <input type="checkbox"/> Other as specified in C6 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| C5.1 | Information about the product, battery & packaging take back system (C1, C2, C3) is available in printed or electronic format. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| QC1 | | | | |



| Reference | Declaration item |
|---|-------------------------|
| 2012/19/EU (WEEE directive) | C1.1 |
| 2006/66/EC (Battery and accumulator directive) | C2.1 |
| 94/62/EC (Directive on packaging and packaging waste) | C3.1 |
| | |



4 Product environmental attributes

| | | |
|-------------------------------|--|--|
| Brand | POLAR | Logo  |
| Company name | Polar Electro Oy | |
| Contact information | Markku Räinen, Senior Manager, Quality Professorintie 5 90440 Kempele, Finland markku.raina@polar.com | |
| Internet site | www.polar.com | |
| Additional information | | |

| | |
|---|--|
| The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration. | |
| Type of product | All standard Heart Rate Monitoring and Activity Monitoring products listed on Polar Electro's Internet site (www.polar.com) except Team Sports and Club Solution products. Technology modules (OEM products) are not covered. |
| Issue date | |
| Intended market | <input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Japan <input type="checkbox"/> U.S. <input type="checkbox"/> Other |
| Additional information | |

| Product environmental attributes - Legal requirements | | Requirement met | | |
|--|--|-------------------------------------|--------------------------|--------------------------|
| Item | | True | False | n.a. |
| 1.1* | Products do comply with the current European RoHS Directive. (See legal reference and NOTE B1) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.2* | Products do not contain Asbestos (see legal reference) Comment: legal reference has no maximum concentration value. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.3* | Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.4* | Products do not contain more than; 0,005 % polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.5 * | Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 1.6* | Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 microgram/cm2/week (see legal reference) Comment: Max limit in legal reference when tested according to EN1811:2011-5 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.7* | Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference) Comment: legal reference has no maximum concentration values | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1.8* | Textile and leather parts with direct skin contact do not contain Azo colourants that split aromatic amines max 0,003% by weight (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.1* | If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0,0005% of mercury (for button cells only) by weight, or more than 0,004% of lead, it shall be marked with the chemical symbol of the metal concerned, Hg or Pb. Information on propped disposal is provided in user manual (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.2* | Button cells used in the product do not contain more than 2% by weight mercury. Other batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2.3* | Batteries and accumulators are easily removable by either user or service providers (as dependent on design of the product). Exception: batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable" (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



| | | | | |
|------|---|-------------------------------------|--------------------------|--------------------------|
| 3.1* | The product complies with legally required safety standards as specified (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.2* | The product complies with legally required standards for electromagnetic compatibility (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.3* | If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecom devices (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3.4* | The product is labeled to show conformance with applicable legal requirements (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.1* | Packaging and packaging components do not contain lead, cadmium, mercury, and hexavalent chromium max 0,01% by weight of those together | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.2* | Plastic packaging material is marked according to to ISO 11469 referring to ISO 1043 (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.3* | There is no "fumarate de diméthyle" in product neither are products put in contact with "fumarate de diméthyle" at any stage of production or storage | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4.4* | The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference) Comment : legal reference has no maximum concentration values | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

| Product environmental attributes – Market requirements – Environmental conscious design | | Requirement met | | |
|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 5.1* | Information for recyclers/treatment facilities is available. (see legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Disassembly, recycling | | | | |
| 6.1* | Parts that have to be treated separately are easily separable | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.2* | Plastic materials in covers/housing have no surface coating. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6.3* | Plastic parts >100g consist of one material or of easily separable materials. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.4* | Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.5* | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Product lifetime | | | | |
| 6.6* | Upgrading can be done e.g. with processor, memory, cards or drivers | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.7* | Upgrading can be done using commonly available tools | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.8* | Spare parts are available after end of production for 3 to 5 years | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.9* | Service is available after end of production for 3 to 5 years | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Material and substance requirements | | | | |
| 6.10* | Electrical cable insulation material of power cables are halogen free (including PVC) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.11* | Electrical cable insulation material of signal cables are halogen free (including PVC) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6.12* | All cover/housing plastic parts > 25g are halogen free | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.13* | All printed circuit boards (without components) > 25g are halogen free | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.14* | Chemical specifications of flame retardants in cover / housing plastic parts >25g according ISO 1043-4: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.15 * | Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.16* | Plastic parts >25g are free from flame retardant substances/preparations above 0.1% classified as R45/46, R50/51/53 and R60/61 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.17* | Of total plastic parts´ weight >25g, recycled material content is % | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.18* | Of total plastic parts´ weight >25g, biobased material content is % | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 6.19* | Light sources are free from mercury If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



| 7.1* For the product the following power levels or energy consumptions have been measured for products using batteries : | | |
|---|---|---|
| Product | Power consumption | Mode description |
| Training computer | 10 uW | Storage mode |
| | 15 mW | 24/7 mode, typical |
| | 1 W | All on mode max, typical |
| | 100 mW | Training mode, typical |
| Sensor | 3 uW...10 uW | Storage mode |
| | 3 uW...100 uW | Stand by mode |
| | 400 uW... 20 mW | Active mode |
| 7.2* | Information about the energy save function is provided with the product. | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |
| 7.3* | The product meets the energy requirements of the following voluntary programs: ENERGY STAR version: Tier: Others specify: | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |
| Electromagnetic emissions | | |
| <p>5kHz telemetry:</p> <ul style="list-style-type: none"> The strength of the electromagnetic field at the transmitter is 5 uT (microtesla) and 1 nT (nanotesla) at 1 m distance. The maximum radiated power is less than 2 nW (nanowatts) <p>W.I.N.D telemetry, 2,4 GHz</p> <ul style="list-style-type: none"> The maximum radiated power of Polar W.I.N.D. products is 1mW with less than 1% pulse ratio <p>Bluetooth telemetry:</p> <ul style="list-style-type: none"> power level: Class 3 (max. 0dBm, 1mW) to Class1 (max. 20dBm, 100mW) | | |
| 9.1* | Product plastic packaging is halogen free (including PVC) | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9.2* | Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> Paper <input checked="" type="checkbox"/> Other <input type="checkbox"/> | |
| 9.3* | For paper user and product documentation do not contain chlorine bleached paper | <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> |



| Reference | Declaration item |
|---|-------------------------|
| 2011/65/EU, 2015/863/EU (RoHS directive) | 1.1 |
| 1907/2006/EC (REACH) | 1.2, 1.4, 1.6, 1.7, |
| Regulation (EC) no. 2037/2000, 2038/2000, 2039/2000 | 1.3 |
| Norwegian regulation relating restrictions on the use of certain dangerous chemicals 20.12.2002 | 1.5 |
| 2006/66/EC (Battery and accumulators directive) | 2.1, 2.2, 2.3, 3.4 |
| 2006/95/EC (Low voltage directive) | 3.1, 3.4 |
| 2004/108/EEC (new EMC directive) | 3.2, 3.4 |
| 2014/53/EU (RED directive) | 3.3, 3.4 |
| 2004/12/EC (Directive on packaging and packaging waste) | 4.1 |
| 97/129/EC (Commission decision on identification system for packing materials) | 4.2 |
| 2037/2000/EC Regulation on substances that deplete the ozone layer | 4.4 |
| 2012/19/EU (WEEE directive) | 3.4, 5.1 |



5 Compliance with regulatory requirements

5.1 RoHS

Reference: Directive on restriction of hazardous Substances, 2011/65/EU and its amendment 2015/863/EU

Compliance statements: All Polar Electro products released to European markets have been compliant with RoHS since the directive entered into force on 1.7.2006. Declaration of Conformity can be found: www.polar.com/support

5.2 China RoHS

Reference: China RoHS, GB/T26572_2011, Marking of China RoHS, SJ/T11364-2014

Compliance statements: All Polar Electro products released to Chinese markets have been compliant with China RoHS since the standards entered into force on 1.3.2007.

5.3 WEEE

Reference: Directive on waste electrical and electronic equipment, 2012/19/EU

Compliance statements: All Polar Electro released products to European markets have been compliant with WEEE since the directive entered into force on 1.8.2005.

5.4 Battery and Accumulator directive

Reference: Directive on batteries and accumulators and waste batteries and accumulators. 2006/66/EC

Compliance statements: All Polar Electro products have been compliant with the Battery and Accumulator since the directive entered into force on 6.9.2006.

5.5 Reach

Reference:: European Union Reach Directive, Registration, Evaluation, Authorization and Restriction of Chemicals. 1907/2006

Compliance statements: All Polar Electro products are compliant with the Reach Directive since the directive entered into force on 1.6.2007

Clarifications:

a) Compliance with registering requirement, clause 7

Polar Electro is not required to pre register or register chemical substances for REACH. Polar Electro is an "importer" of products as manufacturing is outside of EU. Products ("articles") are not intended to release any substance during normal use of the products → no registration obligation for Polar Electro.

Compliance with existing restrictions, Annex XVII

Any of the products ("articles") of Polar do not include over the specified amount of applicable chemicals/substances listed in REACH annex XVII.

Awareness of forth-coming restrictions, Annex XIV

Polar Electro follows the development of Substances of Very High Concern (SVHC) list and takes necessary actions to comply with the requirements. Moreover Polar Electro follows the "Registry of Intentions" list that includes proposals to become a SVHC candidate. Candidates of SVHC as well as Registry of Intentions are published on www.echa.europa.eu (echa chem) website.

d) Communication down the supply chain, clause 33

If any candidate of SVHC is part of Polar product and exceeds 0,1 % of weight Polar Electro is committed to communicate the Safety Data Sheets down to Polar Electro's customer. Polar Electro is ready to communicate the Safety Data Sheet to the end consumer within 45 days of the receipt of a request.

None of Polar Electro's products include SVHC in amounts exceeding 0,1% of weight. Latest approved SVHC list is used for testing.



e) Notifying Echa

Polar Electro is committed to notify Echa (European Chemicals Agency) if any Polar Electro's product contains SVHC more than 0,1% of weight.

5.6 ErP

Reference: Eco design of energy related products 2009/125/EC

Compliance statements: Polar Electro's products consume very low amount of energy (compared to many other industry sectors). This is why Polar Electro's products do not fall into the scope of the first phase of ErP. ErP is a guideline document.

5.7 Packaging and packaging Waste

Reference: Packaging and packaging waste, 94/62/EC

Compliance statements: All Polar Electro's products have been compliant with packing and packing waste directive since the directive entered into force on 20.12.1994.

