

# OM textil

by Martín Azúa

## Sustainability (1/2)

**m114**

**Mobles 114**

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### OBJECTIVE

This document provides relevant information from an environmental, health and human toxicity point of view. The objective of this self-report is to provide arguments stating that this product is environmentally preferable to other similar products of the market.

### ENVIRONMENTAL VALUES

Polyethylene armchair structure (rate registered as ICORENE 4-3590) and manufactured with rotational moulding with removable textile covers.

1. According to manufacturer certificate ICO Polymers, the material of this product is suitable for contact with food.
2. Being an uncovering product facilitates the recycling of each element.
3. Om is a 100% recyclable product.
4. The dye forms part of the plastic material, so that does not require surface treatment or paint added.
5. It has three possibilities of fabric of the cover:
  - 5.1. 90% wool, 10% polyamide (Washing: dry cleaning)
  - 5.2. 100% Polyester
  - 5.3. Polyurethane 63% + 37% cotton
6. It has a layer of polyurethane foam interior. The polyurethane is mainly composed of urethane and isocyanate, which are toxic when there are in particles or in a liquid state through inhalation. The Spanish Health Ministry has set limits for exposure to isocyanate only when they are in a liquid state. So this Om product is not considered dangerous. It has no toxic purge problems considered dangerous because it is under the upholstery fabric and also it has no direct contact with the skin of the user. In

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any case, the Urethane appears in the list of carcinogenic and mutagenic substances as 1st and 2nd category classification harmonized with the European Union, according to Royal Decree 363/1995. Referring to the workplace and under the Spanish Health Ministry, the polyurethane can cause chronic lung diseases; according to some studies it also presents a carcinogenic risk in the place of manufacture of this preparation, in this case the place of manufacture of polyurethane foam.

7. The decomposition of polyurethane may produce isocyanates, carbon monoxide, nitrogen oxides and hydrogen cyanide. If the fire combustion occurs you or fireman should wear self-contained breathing indoors equipment. The polyurethane polymer powder can cause irritation to eyes and lungs. In such cases, adequate hygiene controls and personal protective equipment (PPE) such as gloves, dust masks, respirators, mechanical ventilation, protective clothing and goggles should be used.
8. The manufacturer of fabrics complies with the REACH regulation: "our fabrics contain no substance extremely worrying with more than 0.1% weight ratio".
9. Complies with Directive 2002/95/EC (the product does not contain heavy metals antimony, barium, cadmium, chromium, lead, mercury, selenium present in surface treatments, paints, adhesives, varnishes...). No testing is required as there is no surface finish.
10. Complies with Directive 67/548/EEC and Directive 1999/45/EC. (The product does not contain hazardous substances or preparations for health or the environment) (for surface treatments, paints, adhesives, varnishes ...). No testing is required as there is no surface finish.
11. Complies Royal Decree 117/2003 on the limitation of emissions of volatile organic compounds. No testing is required as there is no surface finish.
12. There is no source of emission of formaldehyde.
13. Complies with the REACH Regulation (EC) No 1907/2006 of the European Parliament and Council of 18 December 2006 since: Mobles 114 states that it maintains proper channel of communication with their suppliers and the OM products do not contain materials that need to be registered, does not contain any substances from the SVHC list (Substances of Very High Concern) published by the ECHA (European Chemical Agency) in the specified amounts (the total annual manufacture of OM products do not exceed the amount of 1 ton of presence of these substances considered of high concern). For all these reasons, it is considered that OM products comply with the requirements of the REACH Regulation.