GIMLET stool

by Jorge Pensi

Sustainability (1/2)

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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

Rotating stool with steel structure finished with epoxy polyester powder paint. Footrest ring made steel with chrome surface finish and seat made of integral polyurethane (PUR) with internal iron structure. The stool has caps on the ends of the legs made of polyamide 6 injection.

1. Being a detachable product facilitates the recycling of each element.

2. The polyurethane is essentially composed of urethane and isocyanates, toxic in liquid or particles state trough inhalation. Nevertheless, thanks to the polyurethane outer skin once it is already catalyzed and the chemical reaction from the manufacturing injection finished, it becomes chemically inert. The Spanish Health Ministry only set limits for exposure to isocyanates in liquid. Therefore, this product is not considered dangerous. Nor has problems purge toxic products considered dangerous. In any case, the urethane appears in the list of carcinogenic and mutagenic substances of 1st and 2nd category classification harmonized in the European Union, according to Royal Decree 363/1995. Referring to the workplace and under the Spanish Health Ministry the polyurethane is at risk for chronic lung disease and according to some studies, carcinogenic risk to the workplace manufacturing preparation, in this case the place of manufacture of Gimlet chair or stool.

3. 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.

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4. In the combustion of polyamide if it occurs, without flame or incomplete, toxic gases mixtures are emitted consisting mainly of CO, CO2 and oxides of nitrogen. Also produce amines, nitriles, aliphatic and aromatic hydrocarbons, aldehydes, cetones, acids, ammonia and hydrogen cyanide. Take appropriate protective measures such as self-contained breathing system.

5. Heat is applied to paint the product, therefore no catalyst or solvent is used.

6. The paint used is made of polyester epoxy powder Interpon 610, according to ISO 9001: 2000 / ISO 14001: 2004 regulations. This preparation has been assessed by the conventional method of the Dangerous Preparations Directive 1999/45 / EC, and is not classified as dangerous for the environment (Directive 67/548 / EEC of Hazardous Substances).

7. It does not contain any Volatile Organic Compounds.

8. Complies with the REACH Regulation (EC) No 1907/2006 of the European Parliament and the Council of 18 December 2006 because: Mobles 114 states that maintains the correct channel of communication with suppliers and the GIMLET products do not contain materials that require registration, does not contain any substances from the SVHC list (Substances of Very High Concern) published by ECHA (European Chemicals Agency) in the specified amounts (the total annual manufacture of GIMLET products do not exceed the amount of 1 ton of presence of these substances considered of high concern). Ring footrest surface finish is chrome, so it contains chromium and nickel stabilized and chemically inert. These substances are considered with restrictions on their manufacture, sale and use only in case of prolonged contact with the user's skin. For all these reasons, we believe that the Gimlet products meet the requirements of REACH Regulation.

9. The polyurethane complies with the EC Directive 95/28 of fire behaviour and the standard reference UTAC 18-502/1 - 1985 type A.

10. The polyurethane injection manufacturer is certified with Environmental Management System CGM-00/120.

11. The manufacturer of the bar chrome ring for the stool is certified with Environmental Adjustment (Decree 50/2005).