

PRESS RELEASE

Bio-on S.p.A.

Bioplastic created for the toys of the future

Safe and eco-sustainable, child-friendly and environmentally sound

BOLOGNA, 16 December 2015 – Bio-on laboratories have created a new type of bioplastic, **designed for the toys of the future**: the **Minerv PHA Supertoys** special grade has been used for the first time in the manufacture of building bricks.

Based on the revolutionary Bio-on biopolymer, 100% naturally biodegradable and already tested in dozens of applications, from automotive to design to biomedical, **Supertoys** is safe, hygienic and biodegradable, it meets and exceeds the provisions of the recent **European Directive 2009/48/EC**, known as the **TDS (Toy Safety Directive)**, implemented into the standard international procedure for toy safety evaluation **EN 71**.

The **Minerv PHA Supertoys project**, launched by Bio-on, **has no commercial goal** and aims solely to demonstrate whether or not specific, eco-sustainable and completely biodegradable formulations can be created for making toys that are safe for children and the environment, without losing out on the end product's functionality and aesthetic.

"The presence of toxic substances in toys is still a very serious problem today," says Bio-on S.p.A Chairman Marco Astorri. "We are convinced that this new discovery can make a decisive contribution to the health of our children. In addition to the fact that Bio-on bioplastics are made from renewable waste plant sources, with no competition with food supply chains, and are 100% naturally biodegradable." It is also interesting that LEGO-style building bricks have been chosen as the demonstrator of this innovation. "We chose this product, explains Astorri, because it is very difficult to produce. It has a tolerance of 2 thousandths of a millimetre and the fact that we have succeeded in guaranteeing such a high quality level gives us confidence for future developments."

The **research project is open to all laboratories and companies around the world working on toy design** and aims to create two types of bioplastic by the end of 2017: **Minerv PHA Supertoys type "R"**, rigid and strong, and **Minerv PHA Supertoys type "F"**, ductile and flexible.

Interested parties can contact info@bio-on.it

VIDEO link for minerv Supertoys: <https://www.youtube.com/watch?v=PWQihtLgZzq>

Further information on **European Directive 2009/48/EC**, **TDS** or **Toy Safety Directive**:

<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:170:0001:0037:en:PDF>

http://ec.europa.eu/growth/sectors/toys/safety/guidance/index_en.htm

BIO-ON S.p.A.

Bio-On S.p.A., an Italian Intellectual Property Company (IPC), operates in the bioplastic sector conducting applied research and development of modern bio-fermentation technologies in the field of eco-sustainable and completely naturally biodegradable materials. In particular, Bio-On develops industrial applications through the creation of product characterisations, components and plastic items. Since February 2015, Bio-On S.p.A. has also been operating in the development of natural and sustainable chemicals for the future.

Bio-On has developed an exclusive process for the production of a family of polymers called PHAs (polyhydroxyalkanoates) from agricultural waste (including molasses and sugar cane and sugar beet syrups). The bioplastic produced in this way is able to replace the main families of traditional plastics in terms of performance, thermo-mechanical properties and versatility. Bio-On PHA is a bioplastic that can be classified as 100% natural and completely biodegradable: this has been certified by Vincotte and by USDA (United States Department of Agriculture). The Issuer's strategy envisages the marketing of licenses for PHAs production and related ancillary services, the development of R&D (also through new collaborations with universities, research centres and industrial partners), as well as the realisation of industrial plants designed by Bio-On.

The alphanumeric codes for ordinary shares "ON" IT0005056236, for ordinary shares "ON" with bonus share IT0005056228 and for warrants "WARRANT Bio-On 2014-2017" IT0005056210. The minimum unit of trading envisaged by the Italian Stock Exchange is 250 shares. Company Nomad is EnVent S.p.A.. Banca Finnat Euramerica S.p.A. acts as company specialist.

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