

Self-cleaning ball GUNMA

Dedicated to toddlers, the self-cleaning ball GUNMA is made of an innovative photocatalytic material which permanently cleans the ball surface.

Bacteria just disappeared with natural or artificial light.

Mouth diseases transmission risk as any kind of contagion are reduced almost to zero when using the GUNMA balls.



GUNMA has been developed in Japan by a scientist and engineer team

Manufactured according to European and Japanese safety regulations, this self cleaning ball GUNMA contains no phenol, no cadmium, no phtalats according to European Directives and also has no poisonous material as per the Japanese Food Safety Law (JFSL) and ST safety standards.

GUNMA is available in 2 sizes : 7cm and 15 cm.



For nurseries, kindergartens but also at home, the GUNMA bal is the toy which increases safety and limits the contagion risks for toddlers.

What is photocatalysis?

The application of photocatalysis was discovered in Japan by Professor Akira Fujishima at the University of Science in Tokyo in 1967 and of which he is the current president.

It is naturally in Japan that the first industrial implementations using the process were developed in the 1990s.

Photocatalysis activates an element called semiconductor using light energy and using the natural humidity of the ambient air in order to facilitate the reaction.

Activation by light causes a catalysis (of ancient Greek κατάλυσις Katalysis, which means to detach).

An electron is thus emitted and will serve as a "cleaner" on the desired surface.

Depending on a natural or artificial light source, photocatalysis is therefore a permanent mechanism, with a long lifetime and without much variation.

Photocatalysis can destroy bacteria, certain viruses, mites, pollens and certain odors.

The challenge has been to obtain a composite material which can be molded easily and for industrial production, be compatible with tests for tearing and destruction according to current standards (resistant to scratches, bites, etc.), non-toxic, accepting non-toxic cleaning products used by communities while having photocatalytic properties.

Developed in the Japanese province of GUNMA, the self-cleaning balls carry not only the name of the province where they were born but also GUNMA-CHAN, mascot of the province born in 1994 and sacred mascot champion in Japan in 2014.



What is a joucement?

The joucement - a contraction of the words « jouet » (toy) and « médicament » (medication) in French language - differs from a therapeutic toy because it is not signifying in the psychiatric sense, does not have the function of correcting or helping to correct a particular disorder, is also not intended for Special Education Needs, but has features to prevent or alleviate the consequences of a pathology.

The refrigerated teething ring, therapeutics teddy bears, ... are inert.

The cold, the heat, ... relieve.

The design itself participates in the treatment because of its reassuring or soothing characteristics.

The placebo effect, unanimously recognized, is an integral part of the treatment, both for the patient and his emotional environment and brings serenity where the pain should be.

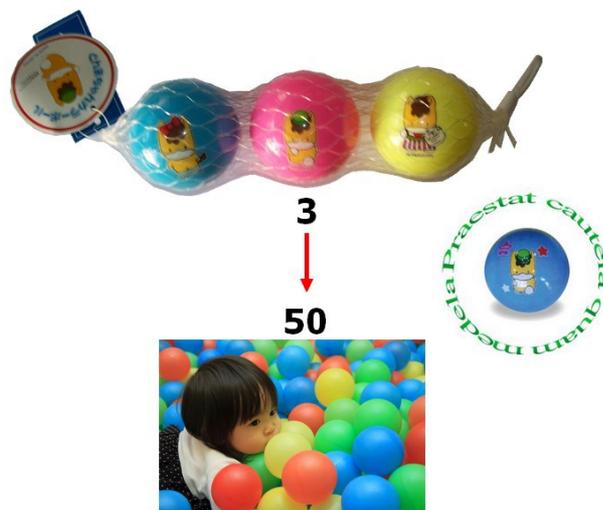
Unlike existing products, GUNMA is the first toy with active principle, ie destroying bacteria, viruses, pollens and certain odors.

GUNMA is certainly the precursor of a new family of products combining active principle, preventing one or more pathologies and amusement.

"Learning with fun" is now a well-known leitmotif.

"Praestat cautela quam medela", ie "Prevention better than cure" is the motto of the GUNMA ball.

Use 1 set of 3 GUNMA balls for 50 traditional balls already in the ball pool.



Your benefits :

Less allergies – Less contagion risks – More safety.