

Pest repellent masterbatches now EU BPR approved

It may not occur to you immediately, but many biobased plastics are vulnerable to pest attacks and can result in huge damage and losses to the application [1].

CTech Corporation, a pioneer company based in Mumbai, India, manufactures non-toxic aversive repellent masterbatches for a wide range of biobased plastic applications.

The niche products manufactured by CTech include *Rodrepel™*, an Anti-rodent and animal aversive repellent. *Termirepel™* is an anti-termite and insect aversive repellent which has a broad spectrum in its action. It is effective against more than 500 species of invasive pests like bedbugs, termites, ants, cockroaches, beetles, etc. And finally *Combirepel™* combines the mechanisms of Rodrepel and Termirepel. This type is an extremely low toxic, animal, insect, and bird aversive repellent.

The products are based on plant-based chemistry. The expansion of ancient knowledge from Vedas and modern science of sustained release and encapsulation has resulted in the formulation of these unique, extremely low toxic and environment-friendly repellent products.

The repellents are available in masterbatch form based on biodegradable plastics like PLA and are also offered as liquid masterbatch solutions for other compostable plastics.

“Why kill when we can repel?” has been CTech’s ideology behind the innovation of these products. The mechanism works in a way so as to act as a deterrent disallowing the rodents or insects to damage the treated application and thus safeguarding the same; in the process also allowing for the safety of human health, target and non-target species and the environment.

All C Tech products are globally trademarked. Extensive testing has been carried out for the products in real-life environments in different parts of the world and excellent results have been achieved. The biocidal repellent masterbatches are thermally stable at polymeric processing temperatures and do not leach out of the

surface and are effective in low dosages. They can be used with various bioplastic applications to prevent pest attacks and increase their longevity.

The masterbatches can be incorporated while manufacturing wires and cables, automotive wirings, bale wrap silage, packaging films, agricultural nets, soil retention sheeting, etc. Many soy based applications, for instance, have been attracting pests and the use of such repellent masterbatches can prove beneficial.

CTech is committed to developing innovative, profitable, and environmentally safe products for the past 25 years. Recently, CTech received the European Union’s Biocidal Product Regulation (EU BPR 528/2012) approval for their biocidal product families and as such is the only company to have received such approval in the field of repellence.

This regulation aims to improve the functioning of the biocidal products market in the EU, and the biocides are risk assessed for toxicity to humans and the environment before they are permitted to be placed on the market. The European Union adopted Guidelines in 2015 establishing that masterbatch with biocidal function needed to be authorized for use in the European Union. As such, masterbatch products containing aversive or repellent substances are considered as a biocidal product.

Mother earth is constantly suffering from human originated problems like toxic products, industrial wastes, etc. Having realized this right at the outset, CTech has consistently evolved sustainable green practices in the development of these products. The active substances of the masterbatch products meet the regulatory guidelines and are sufficiently effective.

Apart from the EU BPR, the repellent masterbatches are approved by various regulations across different countries.

CTech Corporation can provide products to the exclusive needs of the end-user and its use with bioplastic based applications can prove as an efficient solution to the environment. **MT**

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