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ANTI VERMIN V3652: Anti vermin masterbatch

Technical Data Sheet

as of 4/2015

Introduction

Anti Vermin V3652 is formulated to protect polymeric products that are installed underground or along trunking channels, against vermin (especially rodent and termite) attacks. The masterbatch is commonly used in plastic pipes, trunkings, injection parts, cables etc.

The masterbatch is made using the same active ingredient as the masterbatches found in the anti termite compound **AEGIS P 3151** and anti rodent compound **AEGIS B 3251** made by Plexchem technologies.

V3652 is an environmentally friendly product made using EVA* as the carrier resin. The active ingredients used are non-toxic repellents, which deters attack without causing harm to the vermins. For rodents: It causes an extremely unpleasant sensation when rodents tried to bite the finished products. Such intense and unpleasant sensation deters rodents from further attempts to attacks. Rodents being mammals can be conditioned not to bite products that have been laced with an anti rodent masterbatch.

For Termite: The product was introduced as an innovative product by **Plexchem Technologies** as the first environmentally friendly product of its kind in the 1990's, at a time when poisonous heavy metal substrates were widely used. The active ingredients consists of a synthetic PYRETHROID which acts as a repellent as well as a termiticide as the last form of defense of the product. The anti termite active ingredient is approval for used in catchment areas.

*can be compounded with any other polymers such as PP or PVC upon request

The active ingredients exhibit low migration from the finish product and are harmless to humans and plant foliage.

Key advantages of the masterbatch are;

- _ Excellent protection against rodent and termites
- _ Environmentally friendly, heavy metal free
- _ Compatible with varieties of resins including PE, PE-copolymers, EVA, PP, PVC etc.
- _ Easy to store, handle and process
- _ Does not require special equipment to process
- _ colorable

Typical Properties and Recommended Dosage

Form : Free flowing pallets

Color : Opaque whitish grey

Odor : Mild

Dosage : 4-5% by weight of polymer or compound depending on the species of vermin. The treat rate should not exceed 7% by weight

mechanical properties

Tensile Strength >12Mpa

Elongation >200%

Processing conditions

Anti Vermin V 3652 can be processed by most polymer processing equipment, including extrusion machine, injection machine, internal mixer etc.

The concentrate may be tumble mixed with base polymer before processing or added using on-line volumetric or gravimetric dosing units.

No adjustment to the processing equipment, conditions and temperature is required. It is recommended to use the same processing parameters as suggested for the base polymer or compound.

Max extruding temperature should not exceed 300°C

V3652 added within the recommended dosages should not affect the physical properties of the cable provided the masterbatch is carefully dispersed.

Care should be exercised if the masterbatch is to be used as an ingredient for compounding eg in HFFR or PVC compounds, as the active ingredient may be reduced via evaporation and thus diminishes the effectiveness of the masterbatch. For such cases it might be prudent to use only the active ingredient or add slightly more masterbatch to compensate for any potential evaporative losses.

Care should be taken to ensure the safety of production operators and proper and adequate ventilation should be provided. Pre-drying of concentrate is not required.

Packaging, Handling and Shelf Life

The product is packed in 25 Kg net laminated paper bags with sealed PE inner-liner. Products should be stored in cool and dry conditions. Opened bags should be heat sealed if content is not expected to be used in a short period of time.

The shelf life of the masterbatch in unopened bags is 2 years from the manufacturing date.

Transportation

ADR/RID : Free

IMDG : Free

IATA : Free

Check MSDS for questions regarding safe handling

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