



catalyst of change !

ANTI VERMIN MASTERBATCH GRADE V3652

MATERIAL SAFETY DATA SHEET

as of 4/2015

INTRODUCTION

V3652 IS AN UNIQUE VERMIN REPELLENT *with low levels of Toxicity* WHICH ACTS TO EFFECTIVELY PREVENT SERIOUS DAMAGE TO POWER CABLES. THE ACTIVE INGREDIENTS HAVE BEEN PROVEN TO BE ENVIROMENTALLY SAFE WHILE RETAINING ITS EFFECTIVENESS IN PREVENTING VERMIN RELATED DAMAGES TO POWER CABLES.

BECAUSE OF ITS VERY HIGH EFFINITY TO POLYMERIC CHAINS AND ITS **LOW SOLUBILITY IN WATER**, THE ACTIVE INGRIDIENT REMAINS BOUNDED WITHIN THE JACKETING MATERIAL AND ANY SMALL QUANTITIES THAT MAY BE LEACHED OUT OF THE CABLE WILL BE EFFECTIVELY BOUNDED WITH THE SOIL SURROUNDING THE CABLE, THEREBY INCREASING THE RADIUS OF REPELLENCY ACTIVITY [ALTHOUGH DEGRADATION DEPENDS ON OXIDATIVE MICROBIAL ACTIVITY]. THE ACTIVE INGRIDIENT IS NOT ABSORBED BY PLANT FOLIAGE. IN THE AMOUNTS RECOMMENDED THE ACTIVE AGENTS ARE **RELATIVELY HARMLESS TO HUMANS***

*EPA HAS ESTABLISHED AN ACCEPTABLE DAILY INTAKE OF 0.015 mg/kg bodyweight/day. IT IS NOT SHOWN TO BE A SKIN IRRITANT

CLASSIFICATION

IT IS CLASSIFIED AS A PYRETHROID/BITTER TESTING

THE ACTIVE INGREDIENTS ARE A)DENATONIUM BENZOATE (against rodents) AND B) PYRETHROID (against termites).

MODE OF ACTION

termites

a)FIRST, IT ACTS AS A REPELLENT [REPELS TERMITES AT EXTREMELY LOW CONCENTRATIONS]. REPELLENCY IS A CHARACTERISTIC OF PYRETHROIDS.

b)BIFENTHRIN IS ALSO A TERMITICIDE [IT ACTS BY PARALYZING THE NERVOUS SYSTEM OF INSECTS], THUS PROVIDING THE FINAL DEFENCE OF THE CABLE

rodents

a) AFFECTS THE ODOUR, RESPIRATORY AND TASTE SENSES OF THE RODENT, CAUSING IT GREAT DISCONFORT

b) CONDITIONING ITS RESPONSE AGAINST FURTHER ATTACKS, WITHOUT CAUSING ANY PROLONG DAMAGE TO THE ANIMAL

APPEARANCE

V3652comes as free flowing pellets that use either PVC or EVA as the polymeric carrier. EVA is considered a universal masterbatch and can be used with PVC or PE jacketing compounds.

SAFETY AND FIRST AID MEASURES

ACTION OF BIFENTHRIN; The NEUROTOXICITY of Bifenthrin is based on the affinity with voltage-gated sodium channels (both in insects as in mammals). The mechanism in mammals and invertebrates is not different, but the effect on mammals is much less due to higher body temperature, higher body volume, and lower affinity of Bifenthrin to sodium channels. Bifenthrin is much less toxic in mammals than they are in insects and fish, because mammals have the ability to rapidly break the ester bond in Bifenthrin and break the substance into its inactive acid and alcohol components. Bifenthrin is not at all toxic to plants and is used to treat all hops and raspberries cultured that is used for human consumption.

ACTION OF DENATONIUM BENZOATE: most bitter chemical compound known, with bitterness thresholds of 0.05 ppm for the benzoate. It is non toxic and would prompt a retching action.

Although the product is stable under normal temperature conditions, however it is advisable that the product be stored in a well-ventilated facility.

The decomposition products during a fire consist of mainly oxides of carbon but hazardous by-products include Hydrogen Chloride, Hydrogen Fluoride and Hydrogen Cyanide, hence the need for proper ventilation. There is also a concern for the by-products of PVC decomposition if PVC is used as the carrier polymer.

In case of fire, use regular dry chemicals, carbon dioxide or fine water spray.

Fire fighting precautions

Use of respiratory equipment in fighting a fire is necessary.

Use regular dry chemicals, carbon dioxide or fine water spray.

Note to operators

Wear gloves to minimize skin contact. If in contact with the skin, wash with plenty of soap and water. Any numbing, tingling or burning will usually subside within 12 hours.

Wash hands before eating.

Inhalation: remove from exposure immediately

Ingestion: promote vomiting. AVOID ALCOHOL, DIGESTIBLE FATS AND OILS

NOTES TO PHYSICIANS. This product contains BIFENTHRIN and DENATONIUM BENZOATE. Treatment is symptomatic and supportive.

DISPOSAL

Treat as pesticide. Contact your regulatory agency concerning the disposal of pesticide materials

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Do you have the TDS for this product? Please contact you service representative for one or E-mail us at :plexchem@plexchem.com.sg or call 65-67733363

