



catalyst of change !

REPEL-RANTI-RODENT MASTERBATCH TDS

REPEL-R IS AN UNIQUE **NON HAZARDOUS, NON METALLIC & NON TOXIC** RODENT REPELLENT WHICH COMBINES THE PROPERTIES OF VARIOUS ADDITIVES TO EFFECTIVELY PREVENT DAMAGE TO POWER CABLES. THESE ADDITIVES AFFECTS THE ODOUR, RESPIRATORY AND TASTE SENSES OF THE RODENT, CAUSING IT GREAT DISCONFORT AND CONDITIONING ITS RESPONSE TO FURTHER ATTACKS, WITHOUT CAUSING ANY PROLONG DAMAGE TO THE ANIMAL. ALL THE ORGANIC COMPOUNDS USED ARE HARMLESS TO HUMANS.

THESE ADDITIVES ARE EFFECTIVE IN CONCENTRATIONS AS LOW AS 200ppm AND BECAUSE OF ITS LOW SOLUBILITY (< 10ppm), THE PRODUCT DOES NOT AFFECT THE ENVIRONMENT SURROUNDING THE CABLE.

THE PRODUCT COMES IN MASTERBATCH THAT REMAINS STABLE UNDER NORMAL EXTRUDING CONDITIONS (<300°C). DUE TO ITS EFFECTIVENESS IN LOW CONCENTRATIONS, THE ADDITION OF REPEL-R AT THE

RECOMMENDED TREAT LEVEL DOES NOT INTERFERE WITH THE PHYSICAL AND CHEMICAL PROPERTIES OF THE CABLE

CHEMICAL PRODUCT AND IDENTIFICATION

- a) DENATONIUM BENZOATE
- b) MAJOR CAPSAICINOID.

ACTION ON RODENTS

BOTH THE BENZOATE AND THE CAPSAICINOID AFFECTS THE MUCOSA AND RESPIRATORY SYSTEMS OF THE RODENT CAUSING TEMPORARY BUT SEVERE DISTRESS TO THE ANIMAL.

APPEARANCE

The masterbatch comes in free flowing pellets that use either PVC or EVA as the polymeric carrier. EVA carrier is used as a universal masterbatch, but where certain conditions apply (eg. defined flame retardant properties) it is better to specify the type of polymer that should be used. The additives can be compounded in the polymer of your choice.

PROCESSING CONDITIONS

The masterbatch should be mixed in a tumble mixer or added to an online dispensing unit. The amount added should not exceed 5% of the jacketing compound. Typical treat varies between 3-5% depending on the species.

Processing conditions follow the processing conditions of the jacketing compound but temperatures greater than 300° C should be avoided. The product contains a universal processing aid that aids in the dispersion of the additives.

There is no need for special ventilation points and the normal exhaust ports are sufficient to provide adequate ventilation during extrusion.

PACKING SYSTEMS AND SHELF LIFE

REPEL-R COMES IN 25 kgs PE SEALED AND KRAFT PAPER REINFORCED BAGS. BAGS ARE MARKED ACCORDING TO THE TYPE OF POLYMER USED.

THE SHELF LIFE OF THIS PRODUCT SHOULD NOT EXCEED 2 YEARS. ALTHOUGH THE ACTIVE INGREDIENT DOES NOT DETERIOATE OVER TIME, THE PROCEEIBILITY OF THE COMPOUND WILL BE AFFECTED.

SAFETY AND FIRST AID MEASURES

The product is stable at temperatures up to 200 Deg C.

Although the active ingredient poses no threat in the case of a fire, the polymeric carrier can be considered one. Care should be taken when dosing masterbatch that uses PVC as a carrier. Use regular dry chemicals, carbon dioxide or fine water spray.

Inhalation: remove from exposure immediately.

Ingestion: promote vomiting.

IMPORTANT! 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.

Wear safety glasses to prevent the pellets or the dust from coming in contact with the eyes. If in contact wash with plenty of water.

Wear safety mask to prevent inhalation. The effects from retching may persists for 3-4 hrs because of the lingering bittiness.

Wash hands before eating.

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Do you have the safety data sheet for this product? Please contact you service representative for one or E-mail us at: plexchem@plexchem.com.sg

REPEL-R ANTI RODENT MASTERBATCH is a product of alchemix Pte Ltd, an ISO 9001 accredited company.

