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Product Data Sheet

Product: XEDAMATE 60- Xeda Patent

Use:

XEDAMATE 60 is used as an anti-sprouting treatment of potatoes. It is applied with XEDA'S ELECTROFOGGER. The treatment is done on ripe, dry, correctly de-earthed potatoes.

Description: Anti-sprouting product. Thermal fogging solution containing 650 gr/lit of technical chlorpropham (CIPC).

Purpose: Post-Harvest Treatment of potatoes against sprouting.

Physical and Chemical Characteristics of formulation:

Appearance: Brown liquid solution
Specific gravity: 1.17 ± 0.03

Active Ingredient: m-chlorophenyl- isopropyl-carbamate

Physical and Chemical Characteristics of Active Ingredient:

Appearance: Colorless Crystals
Insoluble in water
Soluble in many organic solvents
Melting Point: 40.7° to 41.1°c
Boiling Point: 149°c at 2mmHg
Specific gravity: 1.180

Application Method: CIPC is an anti-sprouting product for the protection of potatoes. This CIPC based thermal fogging formulation insures an easy application typical of this method using XEDA'S ELECTROFOG, but above all it insures precise control of applied amounts of product and thus respects the regulation on residues.

Principle of the Method:

This new CIPC formulation, known worldwide for its efficient against potato sprouting, was especially studied for use with the thermal fogging process (Aerosol).
In this process the formulation is heated up to 230-235°C during a very short time in a fast flow of air, and is dispersed as a fog made of the finest particles. The coating of all fruits takes place on all surfaces independently on the position in the chamber and in the box.
In order to effectively cover the entire surface of the tubers, product should be applied within a storage room.

Date of Treatment:

Apply XEDAMATE 60 after the normal healing period, about 6 to 15 days after harvesting. The second application is a precaution for prolonged conservation and is done in anticipation of the first signs of sprouting (white spots), which would occur in principal 2.5 to 3 months after the commencement of storage.

Application Dosage:

15 to 30 ml/ton, followed eventually with the second application of 7 to 15 ml/ton, after 2.5 to 3 months of storage. These doses must be modified according to the physiological state of the tubers, and by the quality of the silo and its ventilation. They must in all cases be retreated (7 to 14 ml/T), for certain varieties (Nicolas, BF15, Monnalisa, etc.) it is necessary to consider the sensitivity of CIPC to phytotoxicity.

In case of a unique treatment for a protection up to 6 months, apply 32 ml/T

Application Method:

-For better anti-sprouting treatment of potatoes, whatever the volume of treatment maybe, the storage room must be able to obtain (through circulation of forced and recycled air) product penetration of the tubers heaps. It is particularly necessary to verify that the sprouting of tubers has not occurred before treatment, that the potatoes are ripe, correctly de-earthed, and at temperatures comprised between 8°C and 10°C at the moment of treatment. Refer to XEDA'S instructions n° 50.

-Put into the treatment apparatus.

Once the storage room is full:

-Introduce the ELECTROFOG tube into the technical corridor and beyond the ventilators, as far away from them as possible. It is possible to place the tube well into the room by a hole made in the wall or in the door of the room if in the event it is beyond the heaps of potatoes. If not, protect the top of the heaps around the fog tube to avoid overdosing. The treatment is a circulating fog, and there should be 1 or more ventilators adjacent to the fogger working at the same time, for 5 to 10 minutes, and then alternatively the other fans when the first group stops. The functioning time of each group of ventilators must be calculated so that no one group works more than 6 times during treatment.

. In order to start the use of XEDA'S ELECTROFOG, follow the technical sheets n°20 and regulate the temperature of the machine between 230°C and 235°C.

. After treatment stop ventilation to allow the fog to act. After approximately two hours, ventilate normally.

IMPORTANT: Follow the treatment conditions written in XEDA'S instructions "Recommendations for Thermal Fogging, Anti-Sprouting Treatment" and instructions "Electrofog Xeda" (Ref 50 and 20).

Compatibility: Only Xeda's products are compatible with XEDAMATE 60 which can only be fogged with XEDA'S ELECTROFOG.

Safety Rules:

.Store product only at temperatures below 41°C, and keep in original packaging, out of reach of children and domestic animals. Do not smoke, drink, or eat during product application.

.The inert ingredients of XEDAMATE 60 are all considered to be of low toxicological concern, its special ingredient is perfectly neutral and does not provoke acidic or alkaline risks; although the chlorpropham is an active ingredient material, toxicological concern had LD 50 of approximately 1180mg/kg, it is advisable to avoid inhalation of the fog because it could create an irritation to the respiratory system. Because of this, we advise the operator and persons exposed to strong concentrations of the fog to wear a mask with a filter for organic vapor.

-In case of exposure to the contained formulation we suggest rinsing skin and eyes abundantly with

plenty of water.

-In case of ingestion, drink a lot of milk and consult a physician, showing him the packaging label and the instructions.

-Avoid entering a treated silo until the fog has totally dissipated.

Precautions: In order to obtain the best results, strictly follow the instructions reported in these Data Sheets and in the packaging labels, which are both in accordance with the vigorous legislation inherent to the use of all pesticides, are modeled after the results of official and private experimentation. These results of the activity of XEDAMATE 60, despite always being constant in our experimentation, are not an absolute guarantee against all potato sprouting. Agro-technical factors, and the storage conditions of the potatoes play a main role in sprouting development.

XEDA rejects any liability concerning the consequences of this use, granting only the supply of specialties legally registered and corresponding to the formula appearing on the packaging label.

Packaging and Storage:

5 kg net drum to be stored at temperatures between 1°C and 40°C.

A shelf life up to 5 years will be assured in case the sealed container is stored in the respect on these recommendations.