

Abstract

The study showed how to make suitable formulations for some organic acid salts that contained toxic moiety by using surface active agents (surfactants) anionic and non ionic instead of other pesticides which are high in cost, imported, hazard to man and animals and become less effective against pests as the result of building cross resistance in pests as follow:

- Preparation of some surface active agents and determination its physico-chemical properties.
- Organic acid salts have toxic moiety are chosen and made suitable formulations for them by using the locally prepared surfactants. The formulations produced are soluble powder formulation (SP) and wettable powder formulation (WP).
- Evaluation of the pesticidal efficiency for these formulations against insects and fungi.

This study proved that formulations have a good pesticidal efficiency against pests without any contamination of environment with low cost.

الموجز

أوضحت الدراسة كيفية عمل مستحضرات مناسبة لبعض الأملاح العضوية التي تحتوى على شقوق سامة عن طريق إستخدام مواد عضوية ذات نشاط سطحي أيونية وغير أيونية عوضا عن المبيدات الأخرى الأكثر تكلفة إقتصادية والمستوردة من الخارج والغير آمنة بيئيا وصحيا على الإنسان والحيوان على النحو التالي .

- تحضير بعض المواد ذات النشاط السطحي ومعرفة خواصها الفيزيائية الكيميائية
- إختيار أملاح عضوية ذات شقوق سامة وعمل مستحضرات مناسبة لها بإستخدام مواد ذات النشاط السطحي وكان أنواع المستحضرات الناتجة مستحضرات قابلة للنويان (SP) ومستحضرات حبيبات قابلة للبلل (WP).
- تقييم الكفاءة الإبادية لهذه المستحضرات على كل من الحشرات (دودة القطن ، الحشرات الثاقبة الماصة) والفطريات.
- وأوضحت الدراسة فعالية هذه المستحضرات على الآفات التي أختيرت دون التأثير السلبي على البيئة وأيضا مع رخص ثمنها.

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