

Summary of freezer storage stability studies of XDE-742 and Cloquintocet-mexyl safener (parent and major transformation products:

References:

Class, T. 2006. XDE-742: Freezer Storage Stability in Plant Materials (XDE-742) and in Soil (XDE-742 and Three of Its Metabolites). PTRL Europe Study No. P 846 G, PTRL Europe Report No. B 846-1 G Dow AgroSciences Protocol No.: 050001

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Class, T. 2006. Cloquintocet-mexyl and Its Acid Metabolite: Freezer Storage Stability in Plant Materials and in Soil .PTRL Europe Study No. P 847 G, PTRL Europe Report No. B 847-1 G Dow AgroSciences Protocol No.: 050002

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Summary:

XDE-742 and transformation products:

The storage stabilities of XDE-742 and three transformation products (5-OH-XDE-742, 7-OH-XDE-742 and 6-CL-OH-XDE-742) were studied in 7 plant materials (frozen), two soils (frozen) and in solution (refrigerated) for a storage period of 6 months. "Fresh stored" specimens subject to concurrent analysis were used as a check on the extraction and analytical methods. All recoveries from stored materials were similar to those of the concurrent-run "fresh-stored" samples with the exception of 7-OH-XDE-742, which had reduced recovery from loam soil type 3A (66-69% recovery vs. 78-91% for the concurrent samples and 80-88% recovery from soil type 2.2).

Please note that the storage period for these samples was 6 months and that claims for sample stability based on this study should not be extrapolated beyond this period.

Cloquintocet-mexyl and acid transformation product:

The storage stabilities of the safener and its acid transformation product were studied in 7 plant materials (frozen) and two soils (frozen) for a storage period of up to 9 months. Cloquintocet-mexyl showed reduced recoveries in frozen soils after freezing and appears to form the acid transformation product via hydrolysis while frozen or as the result of freezing. Cloquintocet-mexyl was stable in the plant samples studied and the acid transformation product was stable in all media studied. Concurrent analysis of "fresh-stored" samples was performed as per the XDE-742 study.

Please note that the storage period for these samples was 9 months and that claims for sample stability based on this study should not be extrapolated beyond this period.

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