

US EPA ARCHIVE DOCUMENT

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

PMRAID: 1283174 DACO 8.6
USEPA MRID: 46908317

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

PMRAID: 1283173 DACO 7.3
USEPA MRID: 46908316

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.

Reviewers: J. Catherine Evans (PMRA) March 12, 2007



Greg Orrick (USEPA)

May 31, 2007

Émilie Larivière (PMRA)

19 October, 2007

Émilie Larivière

October 25, 2007
19 October, 2007