DATA EVALUATION RECORD - SUPPLEMENT

XDE-570 (FLORASULAM)

Study Type: OPPTS 870.5100 [§84-2]; Bacterial Reverse Gene Mutation Assay

Work Assignment No. 4-01-128 R (MRID 46808240)

Prepared for
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Office of Pesticide Programs
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Template version 02/06

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See TXR # 0054348 for previous DER

This supplement contains:

- New cover page
- New executive summary

STUDY TYPE: *In vitro* Bacterial Gene Mutation (*Salmonella typhimurium/ E. coli*)/ mammalian activation gene mutation assay; OPPTS 870.5100 [' 84-2]; OECD 471 (formerly OECD 471 & 472).

PC CODE: 129108 **DP BARCODE:** D331116
TXR#: 0054348

TEST MATERIAL (PURITY): XDE-570 (Florasulam; 99.2% a.i.; Lot # 930910)

SYNONYMS: XR-570, XRD-570, DE-570, N-(2,6-diflurophenyl)-8-fluoro-5-methoxy(1,2,4)triazolo(1,5-*c*)pyrimidine-2-sulfonamide

CITATION: Lawlor, T.E. (1995) Mutagenicity test on XDE-570 in the *Salmonella*/mammalian-microsome reverse mutation assay (Ames test) pre-incubation method with a confirmatory assay. Corning Hazleton Inc., Vienna, VA. Laboratory Project Study ID: CHV Study No. 16246-0-422R; Dow Study No. DR-0312-6565-016, December 28, 1995. MRID 46808240. Unpublished.

SPONSOR: Dow AgroSciences Canada, Inc., 2100- 450 1 St. SW, Calgary, AB, Canada

EXECUTIVE SUMMARY - In two independent trials of a reverse gene mutation assay in bacteria (MRID 46808240), *Salmonella typhimurium* strains TA98, TA100, TA1535, and TA1537, and *Escherichia coli* strain WP2*uvr*A were exposed to XDE-570 (Florasulam; 99.2% a.i.; Lot # 930910) in dimethylsulfoxide (DMSO) at concentrations of 0, 0.333, 1, 3.33, 10, 33.3, or 100 µg/plate (*S. typhimurium*) and 0, 10, 33.3, 100, 333, 1000, or 3330 µg/plate (*E. coli*) both in the presence and absence of S9-activation. The S9 fraction was derived from the livers of male Sprague-Dawley rats induced with Aroclor 1254. The pre-incubation method was used in both the initial and confirmatory assays. Standard strain-specific mutagens served as positive controls.

XDE-570 was tested up to cytotoxic concentrations, as indicated by the reduced numbers of revertants at 33.3 µg/plate and above in the *S. typhimurium* strains and at 3333 µg/plate in the *E. coli* strain. There were no marked increases in the mean number of revertants/plate in any strain. The positive controls induced the appropriate response in all strains in the presence and absence of S9-activation. **There was no evidence of induced mutant colonies over background.**

The study is classified as **acceptable/guideline** and satisfies the guideline requirement for Test Guideline OPPTS 870.5100; OECD 471 for *in vitro* mutagenicity (bacterial reverse gene mutation) data.

COMPLIANCE - Signed and dated Data Confidentiality, GLP Compliance, and Quality Assurance statements were provided.