DATA EVALUATION RECORD - SUPPLEMENT

XDE-570 (FLORASULAM)

Study Type: *OPPTS 870.5300* [§84-2]; *CHO Cells/Mammalian Activation Gene Forward Mutation Assay at the HGPRT Locus*

Work Assignment No. 4-01-128 P (MRID 46808238)

Prepared for
Health Effects Division
Office of Pesticide Programs
U.S. Environmental Protection Agency
2777 South Crystal Drive
Arlington, VA 22202

Prepared by
Pesticides Health Effects Group
Sciences Division
Dynamac Corporation
1910 Sedwick Road, Bldg 100, Ste B.
Durham, NC 27713

Primary Reviewer
David A. McEwen, B.S.
Signature: _____
Date: _____

Secondary Reviewer
Stephanie E. Foster, M.S.
Signature: _____
Date: _____

Program Manager:
Michael E. Viana, Ph.D., D.A.B.T.
Signature: _____
Date: _____

Quality Assurance:
Mary L. Menetrez, Ph.D.
Signature: _____
Date: _____

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EPA Reviewer: Karlyn J. Bailey **Signature:** _____
Registration Action Branch 2, Health Effects Division (7509P) **Date:** _____
EPA Secondary Reviewer: Myron Ottley, Ph.D. **Signature:** _____
Registration Action Branch 3, Health Effects Division (7509P) **Date:** _____

Template version 02/06

DATA EVALUATION RECORD – SUPPLEMENT

See TXR # 0054348 for previous DER

This supplement contains:

- New cover page
- New executive summary

STUDY TYPE: *In vitro* Mammalian Cell Gene Mutation Assay in Chinese Hamster Ovary (CHO) Cells; OPPTS 870.5300 [§84-2]; OECD 476.

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: Linscombe, V.A., D.W. Okowitt, and B.E. Kropscott (1995) Evaluation of XDE-570 in the Chinese hamster ovary cell/hypoxanthine-guanine-phosphoribosyl transferase (CHO/HGPRT) forward mutation assay. Health and Environmental Sciences, The Toxicology Research Laboratory, Midland, MI. Laboratory Project Study ID: DR-0312-6565-006, January 23, 1995. MRID 46808238. Unpublished.

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

EXECUTIVE SUMMARY - In two independent trials of a mammalian cell gene mutation assay at the HGPRT locus (MRID 46808238), Chinese hamster ovary (CHO) cells cultured *in vitro* were exposed to XDE-570 (Florasulam; 99.2% a.i.; Lot # 930910) in dimethylsulfoxide (DMSO) at concentrations of 0, 187.5, 375, 750, 1500, or 3000 µg/mL (+/-S9) for 4 hours. The S9 fraction was derived from the livers of male Sprague-Dawley rats induced with Aroclor 1254. The positive controls were ethyl methanesulfonate (-S9) and 20-methylcholanthracene (+S9).

XDE-570 was tested up to the limit of solubility (3000 µg/mL). No evidence of cytotoxicity was observed at any concentration in either trial in the presence or absence of S9-activation. No marked increase in mutant frequency was observed in any trial in the presence or absence of S9-activation. The positive controls induced the appropriate response in both trials (+/-S9). **There was no evidence of induced mutant colonies over background in the presence or absence of S9-activation.**

This study is classified as **acceptable/guideline** and satisfies the guideline requirement for Test Guideline OPPTS 870.5300; OECD 476 for *in vitro* mutagenicity (mammalian forward gene mutation) data.

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