

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

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Disclaimer

This Data Evaluation Record my have been altered by the Health Effects Division subsequent to signing by Dynamac Corporation personnel

XDE-570 (FLORASULAM)/129108	OPPTS 870.5300/ DACO 4.5.5/ OECD 476
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	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.

<u>PC CODE</u>: 129108 <u>TXR#</u>: 0054348

DP BARCODE: D331116

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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-5methoxy(1,2,4)triazolo(1,5-*c*)pyrimidine-2-sulfonamide

<u>CITATION</u>: 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 Unpublished.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 μ g/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 μ g/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.

XDE-570 (FLORASULAM)/129108

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.

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