

US EPA ARCHIVE DOCUMENT

D164955
DPBARCODE (RECORD)
109303
SHAUGHNESSY NO

26
REVIEW NO.

EEB REVIEW

DATE IN: 6-10-91 OUT: JUL 19 1991
ASSIGNED:
CASE # : 282551 REREG CASE # : _____
SUB. # : S397104 LIST A, B, C, D
ID # : 91TX0023

DATE OF SUBMISSION 6-3-91

DATE RECEIVED BY EFED 6-10-91

SRRD/RD REQUESTED COMPLETION DATE _____

EEB ESTIMATED COMPLETION DATE _____

SRRD/RD ACTION CODE/TYPE OF REVIEW 510 S 18

MRID #(S) _____

DP TYPE 001

PRODUCT MANAGER, NO. LIBBY PEMBERTON 41 REBECCA COOL

PRODUCT NAME(S) ESFENVALERATE

TYPE PRODUCT INSECTICIDE

COMPANY NAME TEXAS DEPT OF AGRICULTURE

SUBMISSION PURPOSE REVIEW PROPOSED SECTION 18 FOR USE

OF ESFENVALERATE IN TEXAS ON SORGHUM

COMMON CHEMICAL NAME _____

REVIEWER: MIKE REXRODE



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

July 1991

JUL 19 1991

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

MEMORANDUM

SUBJECT: Possible Crisis Declaration by the State of Texas
for the Use of ASANA XL on Sorghum

FROM: James Akerman, Chief
Ecological Effects Branch
Environmental Fate and Effects Division

TO: Becky Cool
Emergency Response and Minor Use Section
Registration Division

The Texas Department of Agriculture (TDA) is presently considering a Crisis Declaration for the use of ASANA XL to control sorghum midge (Contarinia sorghicola) and the corn earworm (Helcoverpa zea). Application (air or ground) rate is designated at 0.025 to 0.05 ai/A with 2 applications per season. The TDA has further estimated that 150,000 acres of sorghum should be designated for spraying in the following counties: upper Coastal Bend effective immediately (June 14, 1991)--Refugio, Calhoun, Victoria, Jackson, Matagorda, Wharton, Brazoria, Fort Bend, Harris, Galveston, Liberty, Chambers, and Jefferson. Beginning on July 5, 1991, esfenvalerate is authorized for use on sorghum in the following counties in the upper Blackland--McLennan, Bosque, Hill, Navarro, Ellis, Johnson, Tarrant, Dallas, Kaufman, Rockwall, Hunt, Collin, Denton, Cooke, Grayson, Fannin, Lamar and Delta. Beginning on August 6, 1991, esfenvalerate is authorized for use on sorghum for seed purposes in the following counties in the High Plains--Deaf Smith, Oldham, Hartley, Dallam, Sherman, Moore, Potter, Randall, Hansford, Hutchinson, Carson, Armstrong, Ochiltree, and Gray.

Presently, ASANA is registered for use on corn and cotton which amount for a total of about 733,000 acres in these designated counties. An additional 250,000 acres to this total, amounts to a 34% increase acreage over the registered use.

Since, ASANA is persistent in the aquatic environment and highly toxic to aquatic life (LC50 = 0.005 to 2 ppb), EEB has a concern for impact to nontarget aquatic organisms that may be effected via drift or runoff from adjacent fields. Spraying of ASANA in two of the designated regions, upper coastal bend and the upper Blackland, may result in an incremental risk to aquatic organisms (especially the shrimp industry adjacent to upper coastal bend). Exposure from runoff and drift in this area can result in an incremental risk to aquatic organisms (especially the shrimp industry adjacent to upper coastal bend). Exposure from runoff and drift in this area can result in residues of 0.03 and 0.154 ug/L, respectively, that exceed our concerns for unacceptable risk.

At this time, EEB can not complete a risk assessment for ASANA because relevant ecological effects data (mesocosm study) has not been reviewed. Until this assessment is completed, any expansion of the ASANA use could result in an incremental risk to aquatic organisms. If there are any comments, please contact Miachel Rexrode (557-0578)

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