

US EPA ARCHIVE DOCUMENT

4 9-30-92

Shaughnessy No.: 080803
DP Barcode: D173494
Case: 283153
Submission: S410229
Date Out of EFGWB: SEPT 30, 1997

TO: R. Taylor
Product Manager #25
Registration Division (H7505C)

FROM: Henry Nelson, Ph.D., Head *H Nelson*
Surface Water Section
Environmental Fate and Groundwater Branch/EFED (H7507C)

THRU: Hank Jacoby, Chief *Hank Jacoby*
Environmental Fate and Groundwater Branch
Environmental Fate and Effects Division (H7507C)

Attached, please find the EFGWB review of:

Reg./File #(s): 080803-0

Common Names: Atrazine

Type of Product: Herbicide

Product Name: _____

Company Name: CIBA-GEIGY

Purpose: Review of FIFRA 6(a)(2) surface water monitoring data

Action Code: 405

EFGWB #(s): 92-0472, 0466, 0467, 0468

Total Review Time: 0.5 day

This review is of a summary of data (421670-01) on the concentrations of atrazine and atrazine degradates in samples collected in November 1990 from Hoover Reservoir which serves Columbus, Ohio.. The data summary was submitted by CIBA-GEIGY in compliance with FIFRA 6(a)(2).

1. CHEMICAL:

Common Name: Atrazine

Chemical Name: 2-Chloro-4-ethylamino-6-isopropylamino-
1,3,5-triazine

Type of Product: Herbicide

Chemical Structure:

Physical/Chemical Properties

Molecular Weight: 354

Physical State : White crystalline solid

Aqueous Solubility: 70 mg/L @ 22°C

Vapor Pressure: 3.0 X 10.7 mm Hg

Log Octanol/Water Partition Coefficient 2.33 to 2.71

2. TEST MATERIALS:

Not applicable.

3. STUDY/ACTION TYPE:

Review of FIFRA 6(a)(2) surface water monitoring data.

4. STUDY IDENTIFICATION:

D173494/421670-01: Letter dated 1/3/92 from K. Stumpf of CIBA-GEIGY to R. Taylor of RD/OPP.

5. REVIEWED BY:

Henry Nelson, Ph.D., Head *H Nelson*
Surface Water Section
Environmental Fate and Groundwater Branch/EFED

6. APPROVED BY:

Hank Jacoby, Chief
Environmental Fate and Groundwater Branch
Environmental Fate and Effects Division/OPP

7. CONCLUSIONS:

(1) Samples were collected in November 1990 from the Hoover Reservoir. Atrazine concentrations in the 17 November 1990 samples were all below the MCL (3 ug/L) ranging from 0.58 to 1.7 ug/L.

(2) Three chloro-triazine degradates of atrazine (G-30033: 2-amino-4-chloro-6-isopropylamino-s-triazine; G-28279: 2-amino-4-chloro-6-ethylamino-s-triazine; and G-28273: 2,4-diamino-6-chloro-s-triazine) were detected in all 17 samples at concentrations ranging from 0.13 to 0.54 ug/L.

(3) In another letter dated 1/3/92 (see EFGWB # not listed dated 3/3/92), CIBA-GEIGY reported that atrazine exceeded the MCL in 3 of 6 samples collected in October and December 1990.

(4) The results of the analyses were summarized by CIBA-GEIGY in their 1/3/92 letter, but the results for individual samples were not provided. No information was provided on the hydrological characteristics of the lake or on the sampling, analytical, or QA/QC methodologies employed. Therefore, EFGWB cannot verify the representativeness or accuracy of the data, nor speculate on

8. RECOMMENDATIONS:

When enough data is collected to determine atrazine concentrations in West Lake for a period of at least one year, CIBA-GEIGY should submit an actual study report which presents all of the data, a comparison of time weighted annual average atrazine concentration to the MCL, the analytical and QA/QC procedures used, and a discussion on what may be causing the continually elevated atrazine concentrations including the hydrology of West Lake and its tributaries.

9. BACKGROUND:

The CIBA-GEIGY letter contains FIFRA 6(a)(2) data submissions on atrazine and atrazine degradate concentrations in samples collected in November 1990 from Hoover Reservoir which serves Columbus, Ohio.

10. DISCUSSION:
See conclusions.

11. COMPLETION OF ONE-LINER
Not applicable

12. CBI INDEX:
Not applicable.

DP BARCODE: D173494

CASE: 283153
SUBMISSION: S410229

DATA PACKAGE RECORD
BEAN SHEET

DATE: 01/24/92
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: MISCELLANEOUS ACTION: 405 DATA-ADVERSE DATA
CHEMICALS: 080803 Atrazine (2-chloro-4-(ethylamino)-6-(isopropylami 0.0000%

ID#: 283153

COMPANY: CIBA-GEIGY CORP.

PRODUCT MANAGER: 25 ROBERT TAYLOR 703-305-6800 ROOM: CM2 241

PM TEAM REVIEWER: JAMES MORRILL 703-305-5705 ROOM: CM2 251

RECEIVED DATE: 01/13/92 DUE OUT DATE: 03/23/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 173494 EXPEDITE: N DATE SENT: 01/24/92 DATE RET.: / /
CHEMICAL: 080803 Atrazine (2-chloro-4-(ethylamino)-6-(isopropylamino)-s-tri

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 02/18/92 CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	01/29/92	/ /
BRAN: EFGB	/ /	/ /
SECT: GTS	/ /	/ /
REVR :	/ /	/ /
CONTR:	/ /	/ /

* * * DATA REVIEW INSTRUCTIONS * * *

please review attached 6(a)(2) report (MRID# 421670-01) of atrazine and its metabolites in surface water in Ohio.

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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EPG#: 0472

Page ___ is not included in this copy.

Pages 5 through 7 are not included.

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- Identity of product inert ingredients.
 - Identity of product impurities.
 - Description of the product manufacturing process.
 - Description of quality control procedures.
 - Identity of the source of product ingredients.
 - Sales or other commercial/financial information.
 - A draft product label.
 - The product confidential statement of formula.
 - Information about a pending registration action.
 - FIFRA registration data.
 - The document is a duplicate of page(s) _____.
 - The document is not responsive to the request.
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The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.
