

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.

The material not included contains the following type of information:

- ☐ 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.

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.