

US EPA ARCHIVE DOCUMENT

3 9-30-92

Shaughnessy No.: 080803
DP Barcode: D175995
Case: 282977
Submission: S414523
Date Out of EFGWB: SEPT 30, 1992

TO: R. Taylor
Product Manager #50
Registration Division (H7508W)

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: 406

EFGWB #(s): 92-0678

Total Review Time: 0.5 day

This review is of a response by CIBA-GEIGY to questions raised in a EFGWB review of atrazine 6(a)(2) data in West Lakes which is the primary source of drinking water for Osceola, Iowa (see EFGWB #92-0267 dated January 1992).

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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:

D175995/422288-01: Letter dated 2/20/92 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) In response to EFGWB's questions about the hydrological characteristics of West Lake, QA/QC, and sampling methods, CIBA-GEIGY suggested that EFGWB contact Herman Gracey who is the Water Superintendent for Osceola, Iowa.

(2) In response to EFGWB's questions concerning analytical methodologies, CIBA-GEIGY supplied a brief description of a method used to analyze samples collected prior to 4/30/91, and supplied a copy of the protocol for a second method used to analyze samples collected after 4/30/91 (attached).

(3) In a supplemental note, CIBA-GEIGY indicated that the Iowa Department of Natural Resources has directed the Osceola Water

Department to construct a water purification system that can decrease pesticide concentrations to below Health Advisory Levels. The system is scheduled for completion in December 1993.

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 2/20/92 CIBA-GEIGY letter is a response to questions raised in a EFGWB review of atrazine 6(2)(a) data in West Lakes which is the primary source of drinking water for Osceola, Iowa (see EFGWB #92-0267 dated January 1992).

10. DISCUSSION:

See conclusions.

11. COMPLETION OF ONE-LINER

Not applicable

12. CBI INDEX:

Not applicable.

Page ___ is not included in this copy.

Pages 5 through 17 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.