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

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

THRU: Hank Jacoby, Chief  
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-ethamino-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
   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.
X 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.