

US EPA ARCHIVE DOCUMENT

Shaughnessy No.:006315

Date Out of EAB: MAY 1 1987

To: Kempter/Pringle  
Product Manager 32  
Registration Division (TS-767C)

From: Akiva D. Abramovitch, Acting Chief  
Review Section #1  
Exposure Assessment Branch  
Hazard Evaluation Division (TS-769C)

Attached, please find the EAB review of...

Req./File # : 3377-EG, 3377-EE, 3377-EU

Chemical Name: 1-Bromo-3-Chloro-5,5-Dimethylhydantoin

Type Product : Disinfectant

Product Name : CLEARBROM

Company Name : Ethyl Corporation.

Purpose : Registration for use in Swimming Pools.

Date Received: 9/26/86

Action Code(s): 160

Date Completed: \_\_\_\_\_

EAB #(s) : 6875-77

Days: 0.5

Deferrals to: \_\_\_\_\_ Ecological Effects Branch

\_\_\_\_\_ Residue Chemistry Branch

\_\_\_\_\_ Toxicology Branch

Monitoring study requested by EAB:

Monitoring study voluntarily conducted by registrant:

1. CHEMICAL: 1-Bromo-3-Chloro-5,5-Dimethylhydantoin, CLEARBROM™

PHYSICAL DATA: Not available with this submission.

2. TEST MATERIAL: Not applicable

3. STUDY/ACTION TYPE: Data Review.

4. STUDY IDENTIFICATION: Not applicable

5. REVIEWED BY:

Akiva D. Abramovitch, Ph.D.  
Chemist  
Environmental Chemistry Review Section 1/EAB/HED/OPP

*Akiva Abramovitch*  
Date: MAY 1 1987

6. APPROVED BY:

Akiva D. Abramovitch, Ph.D.  
Acting Chief  
Environmental Chemistry Review Section 1/EAB/HED/OPP

*Akiva Abramovitch*  
Date: MAY 1 1987

7. CONCLUSIONS:

This submission does not contain any environmental fate data.

8. RECOMMENDATIONS:

The registrant have not submitted any environmental fate information on the chemical listed above.

For outdoor pool use both the hydrolysis and the aqueous photolysis data requirements should be satisfied. An aqueous photolysis data are not required for indoor pool use.

9. BACKGROUND:

A. Introduction: N/A

B. Directions for Use: CLEARBROM contains 96% of the active ingredient and is to be used as a disinfectant in swimming pools, spas and hot tubes.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: Not applicable.

No new data submitted

11. COMPLETION OF ONE LINER:

No one liner.

12. CBI APPENDIX:

No CBI Appendix.

**CLEARBROM - POOLS**

For Use as a Swimming Pool Disinfectant

**ACTIVE INGREDIENTS:**

1-Bromo-3-chloro-5,5-dimethylhydantoin----- 96%

INERT INGREDIENTS----- 4%

TOTAL----- 100%

AVAILABLE BROMINE-----60%

AVAILABLE CHLORINE-----25%

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**STATEMENT OF PRACTICAL TREATMENT**

In case of ingestion, feed gruel, cooked cereal or bread soaked in milk followed by olive oil. Immediately contact physician.

In case of contact with eyes, flush eyes immediately with plenty of water for at least 15 minutes. Immediately, contact physician.

In case of contact with skin, wash immediately with soap, and plenty of water. Immediately contact physician.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**ETHYL CORPORATION**  
451 Florida Street  
Baton Rouge, LA 70801

In case of an emergency endangering life or property involving this product, call collect (504) 344-7147.

EPA Reg. No. 3377 -  
EPA Est. No. 3377-AR-1

Net Contents -----lbs.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

**DANGER**

**HARMFUL IF SWALLOWED. HIGHLY CORROSIVE. DO NOT TAKE INTERNALLY.** Causes eye and skin damage. Irritating to nose and throat. Avoid breathing dust. Use with adequate ventilation. Do not get into eyes, on skin or clothing. Wear rubber gloves and goggles or face shield when handling. Wash thoroughly after handling. Immediately remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds, or public water unless in accordance with a NPDES Permit. For guidance, contact your Regional Office of the EPA. Do not contaminate water by cleaning of container and equipment or disposal of wastes.

**PHYSICAL AND CHEMICAL HAZARDS**

**CHEMICAL HAZARD: STRONG OXIDIZING AGENT.** Mix only with water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, hazardous gasses and possible fire and explosion. In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. If necessary, flood with large volume of water.

**DIRECTION FOR USE:** It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

When used as directed, CLEARBROM is effective as a swimming pool water disinfectant. The filtration system should be in proper working order and pH adjusted between 7.2 and 7.8.

A bromine residual of 1.0 to 2.0 ppm must first be established in the pH adjusted pool. This may be accomplished with granular product such as FAST SHOCK™ by following use direction on the product label or by adjusting flow rate of feeder containing CLEARBROM as recommended by the feeder manufacturer. When the bromine residual reaches 1.0 - 2.0 ppm, adjust the feeder accordingly.

To maintain the recommended bromine residual, adjust feeder flow rate to assure a 1.0 - 2.0 ppm level in residential pools and 2.0 - 4.0 ppm in commercial pools (normally, 30 to 180 gms of CLEARBROM per 10,000 gallons). Actual use rates will vary depending on organic load and environmental conditions. Test for bromine residual regularly to insure recommended level is maintained. Do not swim in the water if the bromine residual is above 5.0 ppm.

**STORAGE AND DISPOSAL:** Keep product dry in closed container when not in use. Store in a cool, dry well ventilated area away from heat, open flames, organic chemicals. **DO NOT REUSE EMPTY CONTAINER.** Rinse empty container thoroughly with water. Place empty container in trash collection or dispose in approved landfill area or bury in a safe place.

#### WARRANTY

Seller makes no warranty expressed or implied concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and or handling is contrary to label instructions.

CLEARBROM - SPAS/HOT TUBS

Disinfectant for Spas and Hot Tubs

ACTIVE INGREDIENTS:

1-Bromo-3-chloro-5,5-dimethylhydantoin-----	96%
INERT INGREDIENTS-----	4%
TOTAL-----	100%
AVAILABLE BROMINE-----	60%
AVAILABLE CHLORINE-----	25%

KEEP OUT OF REACH OF CHILDREN

DANGER

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**DIRECTION FOR USE:** It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

When used as directed, CLEARBROM is effective in disinfecting your spa or hot tub water and keeping it sparkling clear. Place one or more CLEARBROM in the skimmer basket or directly in the water by hanging them on a line near a return.

A sufficient number of CLEARBROM must be used to maintain a bromine residual of 2-4 ppm at all times. Normally, two tablets for each 200 gallons or fraction of water will be sufficient to maintain levels within these ranges. Test for bromine residual of your spa and hot tub regularly and adjust as needed by decreasing or increasing feeder flow rate. Residential spas and hot tubs should be drained and refilled with fresh water at least once every two months. Heavy use will require draining and refilling at a more frequent interval.

**STORAGE AND DISPOSAL:** Keep product dry in tightly closed original container when not in use. Store in a cool, dry well ventilated area away from heat, open flames, organic chemicals and sunlight. **DO NOT REUSE EMPTY CONTAINER.** Rinse empty container thoroughly with water. Place empty container in trash collection or dispose in approved landfill area or bury in a safe place.

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