		Shaughnessy No.	00631
		Date out EAB:	
To:	Castillo/Laird Product Manager #32 Registration Division (TS-767		
From:	Samuel M. Creeger, Chief Environmental Chemistry Review Exposure Assessment Branch Hazard Evaluation Division (T		•
Attac	hed, please find the EAB review	of:	
Reg./	File No.: 8959-UN		· · · · · · · · · · · · · · · · · · ·
Chemi	cal: 1-bromo-3-chlore-5,5-dime	thylhydantcin	
Type	Product: M		The state of the s
Produ	ct Name: Spa-Trine Bromine	Tarangan mengangan kanangan dan pada mengan kanangan pada mengan pada mengan pada mengan pada mengan pada men	•
Compa	ny Name: Applied Biochemistry		
Submi	ssion Purpose: registration	in spas and hot tubs	
, transco, i un i un igen		•	
ZBB C	ode: other	Action Code:	160
Date :	In: 7/23/84	EAB No.: 446	7
Date (Completed: 1 3 AUG 1984	TAIS (Level II) Days
Defer	rals To:	62	1
 	Ecological Effects Branch		
	Residue Chemistry Branch		

Toxicology Branch

1.0 INTRODUCTION

Applied Biochemists has submitted data in support of the product Spa-Trine Bromine for use as a microbiocide in spas and hot tubs.

2.0 Spa-Trine Bromine: 1-bromo-3-chloro-5,5-dimethylhydantoin-

3.0 DISCUSSION

EAB has not received any environmental fate data for review in this submission. Nor does EAB have any environmental fate data in the files.

4.0 RECOMMENDATIONS

EAB does not concur with the registration of Spa-Trine Bromine until the following data gaps are filled:

- EAB recommends that a hydrolysis study on the active ingredient be required. If hydrolysis data already exists, it should be submitted for review.
- ° On the basis that Spa-Trine Bromine may be used in outdoor tubs, EAB is requiring an aqueous photolysis study.
- EAB recommends that an activated sludge study be conducted since regular drainage of spas could result in an indirect discharge into wastewater treatment plants.
- * EAB recommends that the label contain a statement restricting drainage of treated water onto lawns or soil. If the restriction cannot be accommodated, then additional data may be needed.

Note to PM:

EAB notes that a similar request was reviewed by EAB (7/28/81) for Spa Brom, same active ingredient as Spa-Trine Bromine (registrant: Aquabrom/Tesco).

Richard V. Moraski

ed Mondi

Chemist



Applied Mequon \ Menufactured by od Blochemiete, n. Winconsin 5.1092

USA

Net Contents: Grama)

ACTIVE INGREDIENTS:

1-Bromo 3-chloro-5, 5-dimentivihydantoin
More Than 90% (Available Bromine, 66%-68%|೧३%-३4% By Wgt.]), Available Chlorine, 24%-26% [12%-13% By Wgt.]) INERT INGREDIENTS. Less Than 10% For SPAS

EPA Est NO 8959 WI I

DIRECTIONS FOR USE

t is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

DANGER

REEP OUT OF REACH OF CHILDREN

San first aid and other pracautions on aida panel

When used as directed. SPA-trine "BROMINE can keep your spa or not tub sparking clear and healthful, BROMINE is a very affective disinfectant throughout the entire pM range commonly found in bather water.

rery effective disinfectant throughout the entire pH range commonly found in bather water.

BROMINE Residual: ...0.5-2.0 ppm: Maintain a bromine residual of 0.5-2.0 parts per million at all times. Add one SPAtime* BROMINE PAK to your spa or not trub for each 250 gallons of capacity, or fill your brownine feeder with SPA-time*

BROMINE and adjust as per the feeder manufacturer's directions. Test for bromine residual of your spa or not true
regularly prior to using it, after neavy use, and on a daily basis, if the bromine residual is below 0.5 ppm, adjust to the
promine feeder. Operate your spa or not true circulation and filtration system a minimum of 2 hours per day when not in
use. Due to the low solubility rate of SPA-time* BROMINE, additional circulation of the water may be required to
increase the bromine residual to the proper operating range. Proper circulation, litration and chemistry of your spa or
not true is mandatory for obtaining optimum benefits from the chemicals and equipment. If any problem persists have
your local pool professional analyze your water. Under normal use, your spa or hot trub should be drained and refilling with
fresh water at least once every two months. Heavy use will require draining and refilling your spa or hot trub monthly.

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive - causes eye damage and burns skin. Causes imitation of nose and throat. Harmful if swallowed. Do not get on skin or on clothing. Use clean dry utensils and wear goggles or face shield and rubber gloves when handling. Avoid breathing dust or fumes.

First Aid (Practical Yrestment)

f on skin: Immediately brush off excess chemical and flush with pienty of water. Remove contaminated ctothing. Wash clothing before reuse. If immation persists, call a physician.

E in eyes: immediately flush with plenty of water for at least 15 in es and call a physician

if swallowed: drink in ilk, water or raw egg whites. Call a physician. " intaled: remove person to freeh air. Call a physical

Strong oxidizer Contact with organic material. Decomposes it 460°F with liberation of chlorine and equally toxic gases. Avoid contact with organic material. Decomposes at 460°F with liberation of harmful gases. In case of contamination or decomposition, do not reseal container.

CONTAINER HANDLING AND STORAGE

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 and organic chemicals. Place amony container in trash collection in approved landful area. Or our yin safe place. On not reuse pesticide container.

ENVIRONMENTAL HAZARD

This product is toxic to fish. Do not dishearge into lake, streams, ponds or public waters unless in accordance with NPDES Permit. For guidance, contact the regional office or E.P.A.

NOTICE

Buyer assumes all risks of use of this material when such use is contrary to label instructions.