

DP Barcode: D166692
Shaughnessy No.: 111801
Date Out of EFGWB:

AUG 9 1991

TO: Christine Rice
Product Manager # 52
Spec Review & Registration Division (H7508)

FROM: Emil Regelman
Supervisory Chemist, Review Section #2
OPP/EFED/EFGWB (H7507C)

THROUGH: Henry Jacoby, Chief
OPP/EFED/EFGWB (H7507C)

Attached, please find the EFGWB review of:

Reg./File #(s) : 111801-010182

Common Name : POLY(HEXAMETHYLENEBIGUANIDE)

Chemical Name : Poly(iminoimidocarbonyliminoimidocarbonyliminohexa-
methylene)hydrochloride

Product Type : FUNGICIDE, MICROBICIDE, BACTERIOCIDE/GERMICIDE &
ALGAECIDE

Product Name : BAQUACIL

Company Name : ICI AMERICAS INC.

Purpose : List C DCI

Date Received: 8/01/91

EFGWB #(s): 91-0821-0745

Date Completed: 8/08/91

Action Code: 600 PHASE 2 RESPONSE SUBMISSION

Deferrals to:

_____ Ecological Effects Branch/EFED
_____ Science Integration & Policy Staff/EFED
_____ Occupational and Residential Exposure Branch/HED
_____ Dietary Exposure Branch/HED
_____ Toxicology Branch I, II/HED

MEMORANDUM

SUBJECT: List C Chemical Data Call-In
Poly(hexamethylenebiguanide) (Chemical #111801)

FROM: Mah T. Shamim, Ph.D., Chemist
Review Section #2
Environmental Fate and Groundwater Branch
Environmental Fate and Effects Division (H7507C)

TO: Christine Rice, Product Manager
Review Section #2
Accelerated Reregistration Branch
Spec Review & Reregistration Division (H7508)

THRU: Emil Regelman, Supervisory Chemist
Review Section #2
Environmental Fate and Groundwater Branch
Environmental Fate and Effects Division (H7507C)

AUG 9 1991

Henry M. Jacoby, Chief
Environmental Fate and Groundwater Branch
Environmental Fate and Effects Division (H7507C)

Attached is a summary of the data requirements and their status for Poly(hexamethylenebiguanide). Major use sites which trigger these data requirements are secondary/enhanced oil recovery, an aquatic non-food industrial use and swimming pool water systems, an aquatic non-food residential use. Based on a further clarification of use patterns by the Registrant, the only data requirements imposed by EFGWB for the reregistration of this chemical are:

1. Chemical Identity
2. Hydrolysis
3. Photodegradation in Water

In the Reregistration Phase 3 Response, the registrant submitted Phase 3 Summaries of the following studies:

- 161-1 Hydrolysis
- 161-2 Photodegradation in Water
- 162-1 Aerobic Soil Metabolism
- 162-2 Anaerobic Soil Metabolism
- 163-1 Leaching/Adsorption/Desorption

The studies on Hydrolysis (161-1) and Photodegradation in Water (161-2) are being reviewed. The studies on Aerobic Soil Metabolism (162-1), Anaerobic Soil Metabolism (162-2) and Leaching/Adsorption/Desorption (163-1) could not be reviewed because they are not legible. These studies are not needed to fulfill the data requirements.

Data Requirements for Poly(hexamethylenebignuanide)

Data Requirement	Use Pattern	Does EPA have data to satisfy this requirement?	Bibliographic citation	Additional data required by EPA
<u>158.290 Environmental Fate</u>				
160-5	Chemical Identity	A, B	No	Yes ²
<u>DEGRADATION STUDIES-LAB:</u>				
161-1	Hydrolysis	A, B	No	Yes ³
<u>Photodegradation</u>				
161-2	In Water	A, B	No	Yes ³
<u>METABOLISM STUDIES-LAB:</u>				
162-1	Aerobic Soil	No	No	No ⁴
162-2	Anaerobic Soil	No	No	No ⁴
<u>MOBILITY STUDIES:</u>				
163-1	Leaching and Adsorption/Desorption	No	No	No ⁴

FOOTNOTES:

- 1 The use patterns are coded as follows: A = Aquatic Non-Food Industrial; B = Aquatic Non-Food Residential
- 2 Data needs validation by DEB.
- 3 Study is being reviewed by EFGWB.
- 4 This study is not needed to support the data requirements; this is based on additional information provided by the registrant on the use pattern of Poly(hexamethylenebigaunide). The study could not be reviewed because it is not legible.