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TSCA section

8E

Submitting Organization

AMER CYANAMID CO

Contractor

Document Title

INITIAL SUBMISSION; LETTER SUBMITTING PRELIMINARY
INFORMATION FROM AN ECHINODERM FERTILIZATION BIOASSAY ON
ACRYLAMIDE POLYMER (SANITIZED)

Chemical Category

ACRYLAMIDE POLYMER



COMPANY SANITIZED

American Cyanamid Company
One Cyanamid Plaza
Wayne, NJ 07470

H. Michael D. Utidjian, M.D.
Corporate Medical Director

3-Pages

December 16, 1991

Document Processing Center (TS-790)
Att'n: Section 8(e) Coordinator
Office of Toxic Substances
U.S. Environmental Protection Agency
401 M Street, S.W.
Washington, D.C. 20460

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Dear Sir/Madam:

The purpose of this letter is to inform you under Section 8(e) of TSCA of preliminary results of an echinoderm fertilization bioassay on a commercial mixture. The mixture contains acrylamide polymer

], 34% petroleum distillate [CAS 64742-47-8] and water. In this study, several male and female Purple Sea Urchins were induced to spawn by injection of 0.5N KCl in order to collect sperm and ova. The gametes were transferred into separate vials. Solutions containing the test article, were prepared at various concentrations using natural sea water and unchlorinated municipal effluent. The sperm and ova were added to five (5) solutions and a control.

At a concentration of 0.1 ppm of test material, 82 out of 150 gametes were fertilized. This results in an EC50 of approximately 0.1 ppm. At higher concentrations proportionately less gametes were fertilized. We believe that this effect was caused by flocculation of the sperm.

A full copy of the study report will be submitted when received.

Please direct all communications on this subject to Dr. Richard A. Davis, Manager, Toxicology Operations at the address above or 201-831-4004.

Sincerely,

H. Michael D. Utidjian, M.D.
Corporate Medical Director

2

SUPPORT INFORMATION FOR CONFIDENTIALITY CLAIMS

**8(e) Submission on mixture containing
acrylamide polymer**

1. For what period of time do you assert this claim of confidentiality?

Confidentiality is claimed for an indefinite period on the chemical identity of the acrylamide polymer.

2. Have there been any confidentiality determinations made by EPA, other Federal agencies, or courts in connection with this information?

Trade Secrecy on the identification of the acrylamide polymer has been claimed and allowed in the state of New Jersey.

3. Has any of the information that you are claiming as confidential been disclosed to individuals outside your company? Will it be disclosed to such persons in the future? If so, what restrictions, if any, apply to use or further disclosure of the information?

No.

4. Briefly describe any physical or procedural restrictions within your company relating to the use and storage of the information you are claiming confidential. What other steps, if any, have you taken to prevent undesired disclosure of the information during its use or when an employee leaves your company?

The information has only been given to those with a need-to-know. It is held confidential within the files of the Toxicology & Product Safety Department.

5. Does the information claimed as confidential appear or is it referred to in any of items listed below:
- advertising or promotional materials for the chemical or the end product containing it;
- safety data sheets or other similar materials for the chemical or the end product containing it;
- professional or trade publications; or
- any other media available to the public or to your competitors.

If you answered yes to any of the above questions, you must indicate where the information appears and explain why it should nonetheless be treated as confidential.

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The information claimed as confidential has not been referred to in any of the above.

6. Would disclosure of this information be likely to result in substantial harm to your competitive position?

Yes.

7. If the information in question is "health and safety data" pursuant to 40CFR Part 2.306(3)(i), do you assert that disclosure of the information you are claiming confidential would reveal:

- a) confidential process information;
- b) confidential proportions of a mixture; or
- c) information unrelated to the effects of the substance on human health or the environment?

This submission does not disclose information on process or any information unrelated to the effects of the substance on human health or the environment.

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