FMC Corporation
1735 Market Street
Philadelphia, Pennsylvania 19103
215 299 6000

RECEIVED
OPPT CBIC
96 MAR 20 AM 11:02

FYI

FMC

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

FYI-0396-001267

March 15, 1996

Contains No CBI

Document Processing Center (7407)
Office of Pollution Prevention and Toxics
401 M Street, S.W.
Washington, D.C. 20460

FYI-96-001267
INIT 03/20/96

ATTN: TSCA 8(e) Coordinator

84960000009

Dear Sir or Madam:

This notification is submitted on behalf of FMC Corporation ("FMC"), 1735 Market Street, Philadelphia, PA 19103, on a "FYI" basis pursuant to Section 8(e) of the Toxic Substances Control Act, Public Law 94-469 ("TSCA") and the Statement of Interpretation and Enforcement Policy, 43 FR 11110-11116, March 16, 1978 (the "Policy Statement").

FMC Corporation conducted the following study with 5% Peracetic Acid, CAS Number 79-21-0: "Acute Toxicity to Water Fleas (*Daphnia magna*) Under Static Conditions". The results discussed below are based on the unaudited draft report.

This study was conducted for the purpose of providing additional information for good product stewardship and was conducted at ABC Laboratories, Columbia, MO. The results discussed below are based on an unaudited draft report.

In the acute toxicity study with *Daphnia magna*, groups of daphnids were exposed to mean measured concentrations of 5% Peracetic Acid of 0 (control), 0.19; 0.34; 0.56, 0.86; and 1.4 mg/L for 48 hours under static conditions. Two replicate vessels containing 10 daphnids each were

96 APR -9 PM 12:25
RECEIVED
OPPT NCIC

0 0 0 3

established for all treatment levels and the control. The average cumulative percent of immobilized daphnids at each dose is indicated in the following table:

Mean Measured Concentration (mg/L)	Average Cumulative % Immobilized Organisms at 48-Hour
Control	0
0.19	0
0.34	0
0.56	0
0.86	90
1.4	100

Based on these unaudited results, the 48-hour EC_{50} for 5% Peracetic Acid in *Daphnia magna* is 0.73 mg/L (95% confidence limits of 0.56-0.86 mg/L). The 48-hour (NOEC) is 0.56 mg/L based on the lack of >10% immobility or abnormal effects at this concentration.

Peracetic acid is a mixture of peracetic acid and hydrogen peroxide. In its typical applications there should be essentially no residual peracetic acid in the effluent. Usually, peracetic acid is totally consumed during its TSCA uses. However, in all FIFRA registered applications, any effluent containing residual peroxygen will either be decomposed or treated at a permitted NPDES facility. The labels for FMC's EPA FIFRA registered Vigor-Ox™ products state: "Do not discharge effluent into lakes, ponds, estuaries, ocean or other waters."

Neither peracetic acid nor hydrogen peroxide are known to bioaccumulate to a pronounced degree or to persist in the environment. Although somewhat stable in air and distilled water, peracetic acid when exposed to various catalysts, e.g., clay, iron rich soil, microbes, etc., readily decomposes into water, oxygen, and acetic acid. Typically, decomposition will occur within a matter of minutes to hours. Hydrogen peroxide will also break down within relatively short periods of time. Depending on the temperature, the presence

of microbes and the concentration of organics and metal ions, the half-life is expected to be only a few hours.

Based on EPA guidance recently provided to FMC concerning this type of study, we do not believe the Agency is interested in receiving this information under TSCA 8(e). We nevertheless felt the Agency would be interested in these results.

FMC makes no claims of confidentiality for this submission.

A copy of the audited final report will be submitted to the Agency once it becomes available.

Sincerely yours,

Linda M. Clark

Linda M. Clark
Supervisor, Product Regulatory Affairs
215/299-6133

AMTEK CORP.

CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY that the microimages appearing on this microfiche are accurate and complete reproductions of the records of U.S. Environmental Protection Agency documents as delivered in the regular course of business for microfilming.

Data produced 11 (Month) 24 (Day) 97 (Year) Barbara Smith Camera Operator

Place Syracuse (City) New York (State)