

8EHQ 0595-13287 PDCN: 8895000077

DuPont Specialty Chemicals
1007 Market Street
Wilmington, DE 19898



DuPont Specialty Chemicals

(B)

8EHQ-94-13287
8995000155 FLW

March 14, 1995

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED
CONFIDENTIAL BUSINESS INFORMATION**

Document Processing Center (TS-790)
Attention: 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460

95 MAR 20 AM 8:15

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COMPANY SANITIZED

Dear Sir/Madam:

Ref.: 8EHQ-1294-13287

In response to your request of Dr. C. F. Reinhardt, DuPont Haskell Lab, relative to the subject TSCA 8(e) notification, attached are confidential and public copies of the report describing the results from the static acute screening test in fathead minnows that we ran on 1-Chloro-2-propanone (Monochloroacetone, MCA, CAS # 78-95-5). We interpret the result (96-hr. LC50 <0.5 mg/l) to mean that MCA is highly toxic to fish.

Besides informing EPA of these results we updated our MSDS but concluded that no other specific action was warranted considering the conditions of manufacture, use and handling.

We produce MCA in a closed-system, closely-controlled process for a single industrial customer. They use it as an intermediate also in a closed process, with little potential for human or environmental exposure. Our process reactors are located in a diked area to capture inadvertent spills. If these spills occurred they would be directed to the site wastewater treatment facility for treatment prior to discharge through the plant's NPDES outfall. Since MCA is a potent lachrymator the process is closely monitored and controlled so that airborne exposures do not exceed the ceiling short term exposure limit (STEL-TLV(C) of 1 ppm.

You may contact me on 302/774-6467 if there are any questions.

Yours truly,
K. D. Dastur

K. D. Dastur
Manager, Product Toxicology
and Chemical Regulations

4/4/95

HASKELL LABORATORY FOR TOXICOLOGY
AND INDUSTRIAL MEDICINE

STATIC, ACUTE 96-HOUR SCREENING TEST OF H-20125
TO FATHEAD MINNOWS, *Pimephales promelas*

DISCLAIMER: By sponsor request, this study was not conducted according to formal regulatory good laboratory practice standards.

GENERAL INFORMATION

MR: [CBI]
HASKELL NUMBER: 20125
TEST CODE: 295
MATERIAL TESTED: 2-Propanone, 1-chloro-
SYNONYM: MCA
PURITY: Not supplied by sponsor
COMPOSITION: 90 - 94% MCA
SPONSOR: DuPont Chemicals
NOTEBOOK ID: [CBI]

SUMMARY

H-20125 was extremely toxic to fathead minnows (*Pimephales promelas*) in a 96-hour unaerated, static, acute test (96-hour LC50 less than 0.5 mg/L). Nominal concentrations of H-20125 tested were 0, 0.5, 1.0, 50, 500, and 5000 mg/L. Based on visual observations, undissolved test substance was observed in all test concentrations, except the control, after one hour of stirring at the start of the test, but had dissolved by 24 hours. Total mortality was observed in all test concentrations, except the control, by 72 hours. Dissolved oxygen measured in 0, 0.5, 1.0, 50, 500, and 5000 mg/L were 8.6, 8.6, 8.6, 8.5, 8.5 and 8.5 at 0 hours, and 6.1, 5.4, 7.2, 8.5, 8.5 and 8.5 at 96 hours or at total mortality. pH values were 7.7, 6.9, 6.9, 6.9, 6.9 and 6.9 at 0 hours, and 7.6, 7.5, 7.6, 6.9, 6.9 and 6.9 at 96 hours or at total mortality.

WORK BY: Laurie D. Bouchelle
Laurie D. Bouchelle
Toxicology Technician

7-13-93
Mo/Day/Year

APPROVED BY: Guat-Lian C. Kreamer
Guat-Lian C. Kreamer, Ph.D.
Research Toxicologist
and Study Director

07/13/93
Mo/Day/Year

DISTRIBUTION: [CBI]