



DuPont Central Research and Development

8EHQ-1294-13264

DuPont Central Research and Development
Haskell Laboratory for Toxicology and Industrial Medicine
Box 50, Elkton Road
Newark, DE 19714-0050
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8EHQ-94-13264

INIT 12/05/94

December 1, 1994

A

Contains No CBI

Express Mail - Return Receipt Requested

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



88950000054

DEC 5 11 16 AM '94

Dear 8(e) Coordinator:

Ethane, 1-chloro-1,2-difluoro-
CAS Registry Number 338-64-7

This letter is to inform you of the results of a recently completed acute inhalation study we conducted with this material.

Four-hour inhalation exposures were conducted with groups of 3 rats. After exposures to atmospheric concentrations of approximately 238, 40 and 15 ppm all three rats died or were sacrificed in extremis. Most of the deaths were delayed, up to 4 days after the exposure ended. Convulsions were observed during the exposure in one rat exposed to approximately 8 ppm. The rats exposed to 8 ppm had no observable effects after the end of the exposure and appeared normal up to 6 days post-exposure.

The effects described above are being reported in accordance with the guidance given in the EPA TSCA Section 8(e) Reporting Guide (June, 1991). The test compound is a research chemical, and within DuPont exposure potential is controlled and limited.

Sincerely,

Charles F. Reinhardt

Charles F. Reinhardt, M.D.
Director

CFR:dj
(302)366-5285

12/19/94



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Dr. Charles F. Reinhardt
E. I. Du Pont De Nemours and Company
Haskell Laboratory for Toxicology and Industrial Medicine
P.O. Box 50, Elkton Road
Newark, Delaware 19714-0050

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

DEC 27 1994

EPA acknowledges the receipt of information submitted by your organization under Section 8(e) of the Toxic Substances Control Act (TSCA). For your reference, copies of the first page(s) of your submission(s) are enclosed and display the TSCA §8(e) Document Control Number (e.g., 8EHQ-00-0000) assigned by EPA to your submission(s). Please cite the assigned 8(e) number when submitting follow-up or supplemental information and refer to the reverse side of this page for "EPA Information Requests".

All TSCA 8(e) submissions are placed in the public files unless confidentiality is claimed according to the procedures outlined in Part X of EPA's TSCA §8(e) policy statement (43 FR 11110, March 16, 1978). Confidential submissions received pursuant to the TSCA §8(e) Compliance Audit Program (CAP) should already contain information supporting confidentiality claims. This information is required and should be submitted if not done so previously. To substantiate claims, submit responses to the questions in the enclosure "Support Information for Confidentiality Claims". This same enclosure is used to support confidentiality claims for non-CAP submissions.

Please address any further correspondence with the Agency related to this TSCA 8(e) submission to:

Document Processing Center (7407)
Attn: TSCA Section 8(e) Coordinator
Office of Pollution Prevention and Toxics
U.S. Environmental Protection Agency
Washington, D.C. 20460-0001

EPA looks forward to continued cooperation with your organization in its ongoing efforts to evaluate and manage potential risks posed by chemicals to health and the environment.

Sincerely,

Terry R. O'Bryan

Terry R. O'Bryan
Risk Analysis Branch

Enclosure

13264 A



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contains at least 50% recycled fiber

Triage of 8(e) Submissions

Date sent to triage: APR 06 1995

NON-CAP

CAP

Submission number: 13264A

TSCA Inventory: Y N D

Study type (circle appropriate):

Group 1 - Dick Clements (1 copy total)

ECO AQUATO

Group 2 - Ernie Falke (1 copy total)

ATOX SBTOX SEN **w/NEUR**

Group 3 - Elizabeth Margosches (1 copy each)

STOX CTOX EPI RTOX GTOX
STOX/ONCO CTOX/ONCO IMMUNO CYTO NEUR

Other (FATE, EXPO, MET, etc.): _____

Notes:

THIS IS THE ORIGINAL 8(e) SUBMISSION; PLEASE REFILE AFTER TRIAGE DATABASE ENTRY

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entire document: <u>0</u> 1 2 pages <u> </u>	pages <u>1</u>
Notes:	
Contractor reviewer: <u>UPS</u>	Date: <u>1/30/95</u>

CECATS/TRIAGE TRACKING DBASE ENTRY FORM

CECATS DATA: BEHQ. 1294 - 13264 SEQ. A

TYPE: (INT) SUPP FLWP
 SUBMITTER NAME: Dupont Central Research and Development

SUB. DATE: 12/01/94 OTS DATE: 12/05/94 CSRAD DATE: 12/19/94

CHEMICAL NAME: Ethane, 1-chloro-1,2-difluoro-
 CAS# 338-64-7

- VOLUNTARY ACTIONS:
 0401 NO ACTION REQUIRED
 0402 STUDIES PLANNED IN HWAY
 0403 NOTIFICATION OF WORKING CONDITIONS
 0404 LABEL/MSDS CHANGES
 0405 PROFESSIONAL/INDUSTRY CHANGES
 0406 APP/USE DISCONTINUED
 0407 PRODUCTION DISCONTINUED
 0408 CONFIDENTIAL

- INFORMATION REQUESTED: ELWP DATE:
 0501 NO INFO REQUESTED
 0502 INFO REQUESTED (TECI)
 0503 INFO REQUESTED (VOL ACTIONS)
 0504 INFO REQUESTED (REPORTING RATIONALE)
 DISPOSITION:
(0503) REFER TO CHEMICAL SCREENING
 0578 CAP NOTICE

INFORMATION TYPE:	P.F.C.	INFORMATION TYPE:	P.F.C.
0201 ONCO (HUMAN)	01 02 04	0216 EP/CLIN	01 02 04
0202 ONCO (ANIMAL)	01 02 04	0217 HUMAN EXPOS (PROD CONTAM)	01 02 04
0203 CELL TRANS (IN VITRO)	01 02 04	0218 HUMAN EXPOS (ACCIDENTAL)	01 02 04
0204 MUTA (IN VITRO)	01 02 04	0219 HUMAN EXPOS (MONITORING)	01 02 04
0205 MUTA (IN VIVO)	01 02 04	0220 ECO/AQUA TOX	01 02 04
0206 REPRO/TERATO (HUMAN)	01 02 04	0221 ENV. OCCUR/RELFATE	01 02 04
0207 REPRO/TERATO (ANIMAL)	01 02 04	0222 EMER INCI OF ENV CONTAM	01 02 04
0208 NEURO (HUMAN)	01 02 04	0223 RESPONSE REQEST DELAY	01 02 04
0209 NEURO (ANIMAL)	01 02 04	0224 PROD/COMP/CHEM ID	01 02 04
0210 ACUTE TOX. (HUMAN)	01 02 04	0225 REPORTING RATIONALE	01 02 04
0211 CHR. TOX. (HUMAN)	01 02 04	0226 CONFIDENTIAL	01 02 04
0212 ACUTE TOX. (ANIMAL)	01 02 04	0227 ALLERG (HUMAN)	01 02 04
0213 SUB ACUTE TOX (ANIMAL)	01 02 04	0228 ALLERG (ANIMAL)	01 02 04
0214 SUB CHRONIC TOX (ANIMAL)	01 02 04	0229 METAB/PHARMACO (ANIMAL)	01 02 04
0215 CHRONIC TOX (ANIMAL)	01 02 04	0240 METAB/PHARMACO (HUMAN)	01 02 04
		0241 IMMUNO (ANIMAL)	01 02 04
		0242 IMMUNO (HUMAN)	01 02 04
		0243 CHEM/PHYS PROP	01 02 04
		0244 CLASTO (IN VITRO)	01 02 04
		0245 CLASTO (ANIMAL)	01 02 04
		0246 CLASTO (HUMAN)	01 02 04
		0247 DNA DAM/REPAIR	01 02 04
		0248 PROD/USE/PROC	01 02 04
		0251 MSDS	01 02 04
		0299 OTHER	01 02 04

USE: Research
 PRODUCTION:

TOXICOLOGICAL CONCERN:

SPECIES: RAT

LOW
 MED
HIGH

ONGOING REVIEW

YES (DROP/REFER)
 NO (CONTINUE)
DATA

NON-CBI INVENTORY

YES
 NO
DATA

CAS SR

-CPSS-

> <ID NUMBER>
8(E)-13264A

> <TOX CONCERN>
H

> <COMMENT>
ACUTE INHALATION TOXICITY IN RATS IS OF HIGH CONCERN. SINGLE 4-
HOUR ATMOSPHERIC EXPOSURES OF 15, 40 AND 238 PPM TO GROUPS OF 3
RATS EACH WERE ASSOCIATED WITH DEATH OR SACRIFICE IN EXTREMIS OF
ALL RATS. ONE RAT EXPOSED TO 8 PPM WAS OBSERVED TO HAVE
CONVULSIONS WHICH SUBSIDED BEFORE THE END OF THE EXPOSURE PERIOD.

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