

**Olin** 8EHQ-0696-13676

ENVIRONMENTAL HYGIENE AND TOXICOLOGY DEPARTMENT  
91 SHELTON AVENUE, P.O. BOX 30-9643, NEW HAVEN, CONNECTICUT 06511  
(203) 781-5400

**ORIGINAL**

(A)

**CERTIFIED MAIL - RETURN RECEIPT REQUESTED**



8EHQ-96-13676

June 17, 1996

Document Control Officer (WH-557)  
Information Management Division  
Office of Toxic Substances  
Environmental Protection Agency  
401 M Street, NW  
Washington, D.C. 20460



88960000156

Dear Gentlemen:

**RE: SECTION 8(e) NOTICE OF SUBSTANTIAL RISK  
FLUOROTRIETHOXYSILANE (FTES) CAS #358-60-1**

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JUL 25 11:11:10

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96 JUL -5 AM 10:20  
DPPT NCIC

Toxicological information has recently been brought to the attention of Olin Corporation which it considers subject to TSCA 8(e) Notice of Substantial Risk reporting guidelines. This judgment is based on data generated from an acute dermal toxicity study using fluorotriethoxysilane (FTES - CAS # 358-60-1). The study was conducted at MB Research Laboratories, Inc., in Spinnerstown, PA (Report No. MB 96-4955.02) and is still in draft form.

Ten healthy New Zealand Albino rabbits were initially dosed as received dermally with 2,000 mg/kg body weight of FTES. The exposures were for 24 hours and animals were followed out until day 14. The material caused moderate to severe eschar at all application sites and caused necrosis on several of the animals. This was expected, given the molecular structure of the compound and its predicted corrosivity. At this dose level, 4/10 animals died.

Lack of mobility due to severe dermal reactions was noted in all animals at this dose level which started on day 2 and persisted until the animal died or was sacrificed. In one of the animals that died, emaciation, lethargy, ptosis and ataxia were noted. The other 3 animals that died showed decreased activity due to the severity of the dermal reactions prior to death but no other significant clinical signs. The surviving animals at this dose level were found to have damage to the underlying musculature at the application site.

**Contains No CBI**

OLIN CORPORATION

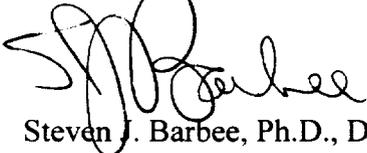
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8/20/96

The laboratory initiated two other dose levels, 1,000 mg/kg and 2,500 mg/kg body weight to more precisely define the LD<sub>50</sub> range. In animals in the 1,000 mg/kg body weight group, clinical signs included lethargy in 7/10 animals and diarrhea in 5/10 animals. No animals died in this group although body weights were decreased in several of the animals.

At 2,500 mg/kg body weight, all animals exhibited a lack of mobility due to severe dermal reactions. In one animal that died on day 5, ataxia was noted and damage to the underlying muscle at the site of application was noted. In 2 other animals that survived, ptosis was observed that persisted in both cases for at least 5 days, disappearing by day 13 of the study. These animals, along with the rest of the animals at this dose level, exhibited damage of the underlying muscle at the site of application at necropsy.

A copy of the final report will be sent to you as soon as it is received.

Sincerely yours,



Steven J. Barbee, Ph.D., D.A.B.T., C.I.H.

Associate Director, Environmental Hygiene & Toxicology

Confidential No CBI

## Triage of 8(e) Submissions

Date sent to triage: 10/25/96

NON-CAP

CAP

Submission number: 13676 A

TSCA Inventory:

Y

N

D

Study type (circle appropriate):

Group 1 - Gordon Cash (1 copy total)

ECO

AQUATO

Group 2 - Ernie Falke (1 copy total)

~~ATOX~~

SBTOX

SEN

w/NEUR

Group 3 - HERD (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; refile after triage evaluation.
- This **original** submission has been **split**; rejoin after triage evaluation.
- Other:

### Photocopies Needed for Triage Evaluation

entire document:    0       1       2       3

front section and CECATS:    0       1       2       3

Initials: \_\_\_\_\_

Date: \_\_\_\_\_

CECATS DATA:  
Submission # BEHQ 0696-13676 SEQ. A

TYPE: (INT) SUPP FLWP  
SUBMITTER NAME: Olin Corporation

INFORMATION REQUESTED: FLWP DATE:  
0501 NO INFO REQUESTED  
0502 INFO REQUESTED (TECH)  
0503 INFO REQUESTED (VOL ACTIONS)  
0504 INFO REQUESTED (REPORTING RATIONAL.F.)  
DISPOSITION:  
0639 REFER TO CHEMICAL SCREENING  
0678 CAP NOTICE

VOLUNTARY ACTIONS:  
(0401) NO ACTION REPORTED  
0402 STUDIES PLANNED IN THE FUTURE  
0403 NOTIFICATION OF WORKING METHODS  
0404 LABORATORY TESTS  
0405 PROCESSING/CHANGES  
0406 APPROUSE DISCONTINUED  
0407 PRODUCTION DISCONTINUED  
0408 CONFIDENTIAL

SUB. DATE: 06/17/96 OTS DATE: 06/26/96 CSRAD DATE: 08/20/96

CHEMICAL NAME: FLUOROTRIETHOXSILANE  
FTES

CASE # 358-60-1  
11

INFORMATION TYPE:	P F C	INFORMATION TYPE:	P F C	INFORMATION TYPE:	P F C
0201 ONCO (HUMAN)	01 02 04	0216 EPICLIN	01 02 04	0241 IMMUNO (ANIMAL)	01 02 04
0202 ONCO (ANIMAL)	01 02 04	0217 HUMAN EXPOS (PROD CONTAM)	01 02 04	0242 IMMUNO (HUMAN)	01 02 04
0203 CELL TRANS (IN VITRO)	01 02 04	0218 HUMAN EXPOS (ACCIDENTAL)	01 02 04	0243 CHEM/PHYS PROP	01 02 04
0204 MUTA (IN VITRO)	01 02 04	0219 HUMAN EXPOS (MONITORING)	01 02 04	0244 CLASTO (IN VITRO)	01 02 04
0205 MUTA (IN VIVO)	01 02 04	0220 ECO/AQUA TOX	01 02 04	0245 CLASTO (ANIMAL)	01 02 04
0206 REPRO/TERATO (HUMAN)	01 02 04	0221 ENV. OCCUR/REL/FATE	01 02 04	0246 CLASTO (HUMAN)	01 02 04
0207 REPRO/TERATO (ANIMAL)	01 02 04	0222 EMER INCI OF ENV CONTAM	01 02 04	0247 DNA DAM/REPAIR	01 02 04
0208 NEURO (HUMAN)	01 02 04	0223 RESPONSE REQEST DELAY	01 02 04	0248 PROD/USE/PROC	01 02 04
0209 NEURO (ANIMAL)	01 02 04	0224 PROD/COMP/CHEM ID	01 02 04	0251 MSDS	01 02 04
0210 ACUTE TOX. (HUMAN)	01 02 04	0225 REPORTING RATIONALE	01 02 04	OTHER	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		

TRIAL DATA: NON-CBI INVENTORY YES NO (IN ITIMINI)  
CAS SR YES (DROP/REFER) RBT TOXICOLOGICAL CONCERN: LOW (MED) HIGH  
ONGOING REVIEW YES (DROP/REFER) RBT PRODUCTION:

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