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September 21, 1992

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

8EQ-92-12486

88920010671

INIT

Dear Sir or Madam:

Subject: Report submitted in accordance with guidelines established by the U. S. Environmental Protection Agency Registration and Agreement for the TSCA 8(e) Compliance Audit Program

Report submitted by: Eastman Kodak Company
343 State Street
Rochester, NY 14650
(716) 724-4000
CAP Agreement Identification Number (8ECAP-0039)

The report pertains to 1,2-ethanediy l thiocyanate (synonym: ethylene thiocyanate) [CAS# 629-17-4] and is being submitted because of lethality with central nervous system signs observed in an acute oral toxicity study in rats and mice. The oral LD₅₀ is 25-50 mg/kg in mice and 50-100 mg/kg in rats. The report is being identified as a study involving other than human effects (Unit II.B.2.b of CAP Agreement).

This chemical is not currently used or sold.

Questions regarding this submission should be addressed to:

Mr. William Hart, Eastman Kodak Company
Corporate Health and Environment Laboratories
Rochester, NY 14652-3615
(716) 722-5991

Sincerely,

R. Hays Bell

R. Hays Bell, Ph.D., Vice President
Corporate Health, Safety and Environment
(716) 722-5036

mm
2/16/95

RHB:JAF
Enclosures



Chemical: Ethylene Thiocyanate

Solution	Animals* No. and Species	Route**	Dose Range	Approx. LD ₅₀	Symptoms	Time of Death	Wt. Change 2 wks
<u>Acute Toxicity</u> 1% in 5% acetone, 95% P.G.	8 M	P.O.	mg/kg 5-400	mg/kg 25-50	Weakness, ataxia, convulsions, unconsciousness	4-7min.	3+
1% in 5% acetone, 95% P.G.	3 M	I.P.	5-25	< 5	Weakness, ataxia, convulsion, unconsciousness	5-6min.	
1% in P. G.	5 R	P.O.	5-100	50-100	Weakness, ataxia, unconsciousness	30min.	4+
1% in P. G.	5 R	I.P.	5-25	10-25	Weakness, ataxia, unconsciousness	28min.	2+
					Notebook No. A34 P 13, 14, 18		
<u>Skin Absorption and Irritation</u> 20% in 90% acetone, 10% olive oil	3 G.P.	Rubber cuff & gauze pad	cc/kg 5-20	cc/kg > 20	Slt. to mod. edema with slt. to mod. redness, few very small gray spots, yellow staining		1-, 2=
					Notebook No A30 P 23		

*G.P. - Guinea Pig, M - Mouse,
R - Rat, RB - Rabbit

**PO - Orally, IP - Intraperitoneally,
IM - Intramuscularly, IC - Intracutaneously 11/14/51

Remarks: Has an unexpectedly high toxicity for a thiocyanate derivative. Probable slight skin absorption.
Not a potent primary irritant.



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

R. Hays Bell, Ph.D.
Vice President, Corporate Health, Safety, and Environment
Eastman Kodak Company
343 State Street
Rochester, New York 14650

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

APR 18 1995

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".

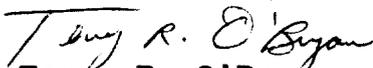
All TSCA 8(e) submissions are placed in the public files unless confidentiality is claimed according to the procedures outlined in Part X of EPA's TSCA §8(e) policy statement (43 FR 11110, March 16, 1978). Confidential submissions received pursuant to the TSCA §8(e) Compliance Audit Program (CAP) should 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
Risk Analysis Branch

Enclosure

12486A



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Triage of 8(e) Submissions

Date sent to triage: APR 20 1995

NON-CAP

CAP

Submission number: 12486A

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

For Contractor Use Only

entire document: 0 1 2 pages

1/2

pages

1, 2

Notes:

Contractor reviewer: FDR

Date: 8/29/95

CECATS/TRIAGE TRACKING DBASE ENTRY FORM

CECATS DATA: Submission # 8EHQ-0992-12486 SEQ. A

TYPE: INT SUPP FLWP

SUBMITTER NAME: Eastman Kodak
Company

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

VOLUNTARY ACTIONS:
(0401) NO ACTION REPORTED
0402 STUDIES PLANNED/IN PROGRESS
0403 NOTIFICATION OF WORKER CONCERNS
0404 LABEL/MSDS CHANGES
0405 PROCESS/HANDLING CHANGES
0406 APP/USE DISCONTINUED
0407 PRODUCTION DISCONTINUED
0408 CONFIDENTIAL

SUB. DATE: 09/21/92 OTS DATE: 09/24/92 CSRAD DATE: 02/16/95

CHEMICAL NAME: _____

CASE#

629-17-4

INFORMATION TYPE:	P F C	INFORMATION TYPE:	P F C	INFORMATION TYPE:	P F C
0201 ONCO (HUMAN)	01 02 04	0216 EPI/CLIN	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. OCCC/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 REQUEST DELAY	01 02 04	0248 PROD/USE/PROC	01 02 04
<u>0209</u> NEURO (ANIMAL)	<u>01 02 04</u>	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	0299 OTHER	01 02 04
0211 CHR. TOX. (HUMAN)	01 02 04	0226 CONFIDENTIAL	01 02 04		
<u>0212</u> ACUTE TOX. (ANIMAL)	<u>01 02 04</u>	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	0239 METAB/PHARMACO (ANIMAL)	01 02 04		
0215 CHRONIC TOX (ANIMAL)	01 02 04	0240 METAB/PHARMACO (HUMAN)	01 02 04		

TRIAGE DATA: NON-CBI INVENTORY

YES

CAS SR

NO

IN P.M.M.I.

ONGOING REVIEW

YES (DROP/REFER)

NO (CONTINUE)

REFER

SPECIES

RAT
MUS
GP

TOXICOLOGICAL CONCERN:

LOW

MED

HIGH

USE:

PRODUCTION:

099212

8(E) -12486A

M/H/L

ACUTE ORAL TOXICITY IN RATS IS OF MEDIUM CONCERN BASED ON AN LD50 OF 50-100 MG/KG. DOSAGE RANGE WAS 5-100 MG/KG (5). CLINICAL SIGNS INCLUDED WEAKNESS, ATAXIA, AND UNCONSCIOUSNESS. MORTALITY DATA AND SEX WERE NOT REPORTED, AND NO OTHER INFORMATION WAS SUBMITTED WITH REPORT.

ACUTE ORAL TOXICITY IN MICE IS OF HIGH CONCERN BASED ON AN LD50 OF 25-50 MG/KG. DOSAGE RANGE WAS 5-400 MG/KG (8). CLINICAL SIGNS INCLUDED WEAKNESS, ATAXIA, UNCONSCIOUSNESS, AND CONVULSIONS. MORTALITY DATA AND SEX WERE NOT REPORTED, AND NO OTHER INFORMATION WAS SUBMITTED WITH REPORT.

ACUTE DERMAL IRRITATION IN GUINEA PIGS IS OF LOW CONCERN BASED ON SLIGHT TO MODERATE EDEMA AND REDNESS (3) WITH GRAY SPOTS AND YELLOW STAINING FROM EXPOSURE TO 5-20 CC/KG OF A 20% SOLUTION. NO OTHER INFORMATION WAS SUBMITTED WITH REPORT.