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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)

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 2-hydrazinoethanol (synonym: beta-hydroxyethyl hydrazine) [CAS # 109-84-2] and is being submitted because of lethality with central nervous system signs observed during an acute oral toxicity study in rats and effects observed in a dermal sensitization study in guinea pigs. The oral LD_{50} was 100-200 mg/kg in rats. The test chemical was a skin sensitizer in 4 of 5 animals tested. The test material is also a moderate skin irritant. The report is being identified as a study involving other than human effects (Unit II.B.2.b of CAP Agreement).

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

RECEIVED 2/16/95

RHB:DRG
Enclosure

Kodak
Official Sponsor of the 1992 Olympic Games

TOXICITY REPORT - E.K.CO. - LABORATORY OF INDUSTRIAL MEDICINE

Chemical: B-Hydroxyethyl Hydrazine (70% in water) **No:**

Solution	Animals* No. and Species	Route**	Dose Range	Approx. LD_{50}	Symptoms	Time of Death	Wt. Change 2 wks
Acute Toxicity			mg/kg	mg/kg			
70% in water (as obtained)	5 R	P.O.	100-1600	100-200	Weakness, ataxia, violent convulsions, squealing.	1h-1day	1 +
"	5 R	I.P.	25-400	100-200	"	1-2¼ h	3 +
5% in water	5 R	P.O.	50-800	100-200	Weakness, ataxia, convulsions and squealing, unconsciousness, blood at nose.	2 ¼h-1day	2 +
"	5 R	I.P.	50-800	100-200	Weakness, ataxia, violent convulsions, squealing.	1-1 3/4h	2 +
Two sets of rats done to compare effects of dilution of an irritating material on toxicity.							
					Notebook No.	56 P 188	
Skin Absorption and Irritation			cc/kg	cc/kg			
Undiluted (70% in water)	3 G.P.	Rubber cuff & gauze pad	5-20	<5	After Death - Bleeding from nose, no or slight edema at edge, purplish coloration.	1 day	
35% in water	3 G.P.	"	5-20	<5	After Death - Purplish coloration probably due to death.	1 day	
10% in water	3 G.P.	"	5-20	<5	After Death - Purplish coloration, evidence of blood around nose and mouth.	1 day	
					Notebook No.	56 P 188	

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

**PO - Orally, IP - Intraperintoneally, IM - Intramuscularly, IC - Intracutaneously

Remarks: Moderately toxic compound. Urine collected from I.P. injected rats showed no blood by either the DeJager or Florence tests. Compound caused lowered hemoglobin and red cell counts.
Irritation difficult to judge after death - probably moderately irritating. Definite skin absorption.

TOXICITY REPORT - E. K. CO. - LABORATORY OF INDUSTRIAL MEDICINE

Chemical: B-Hydroxyethyl Hydrazine (70% in water) **No:**

Solution	Animals* No. and Species	Type of Test	Initial Score		Final Score		Score at End of 10-Day Rub On
			24 hrs	48 hrs	24 hrs	48 hrs	
Skin Sensitization							
1% in water	5 G.P.	Cuff-Rub-ON-Cuff	0.8	1.0	2.2	2.6	0.8 Sensitized 4/5
Phenylhydrazine (base)-1% in water	5 G.P.	"	1.2	2.4	2.8	3.4*	Thick, dark red, crusty, eschar formation

Notebook No. 56 P 188

Solution	Animals* No. and Species	Route**	Dose Range mg/kg	Approx. LD_{50} mg/kg	Symptoms	Time of Death	Wt. Change 2 wks
Chronic Toxicity							
*Impossible to tell swelling on one animal because of eschar formation, so was averaged in as 0 swelling.							

Notebook No. P

Type of Exposure	Animals* No. and Species	Conc.	Time	Mortality	Symptoms
Inhalation					

Notebook No. P

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

**PO - Orally, IP - Intraperitoneally,
IM - Intramuscularly, IC - Intracutaneously

Remarks:

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

Terry R. O'Bryan
Risk Analysis Branch

Enclosure 12482A

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Triage of 8(e) Submissions

Date sent to triage: APR 20 1995

NON-CAP CAP

Submission number: 12482A

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 **pages** 1, 2, 3

Notes:

Contractor reviewer : PDL **Date:** 3/29/95

CECATS\TRIAGE TRACKING DBASE ENTRY FORM

CECATS DATA:
Submission # 8EHQ-0992-12482 SEQ. A

TYPE: INT. SUPP FLWP

SUBMITTER NAME: Eastman Kodak Company

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

CHEMICAL NAME:

CAS#
109-84-2

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/UNDERWAY
0403 NOTIFICATION OF WORKERS/OTHERS
0404 LABEL/MSDS CHANGES
0405 PROCESS/HANDLING CHANGES
0406 APP/USE DISCONTINUED
0407 PRODUCTION DISCONTINUED
0408 CONFIDENTIAL

INFORMATION TYPE:		P F C
0201	ONCO (HUMAN)	01 02 04
0202	ONCO (ANIMAL)	01 02 04
0203	CELL TRANS (IN VITRO)	01 02 04
0204	MUTA (IN VITRO)	01 02 04
0205	MUTA (IN VIVO)	01 02 04
0206	REPRO/TERATO (HUMAN)	01 02 04
0207	REPRO/TERATO (ANIMAL)	01 02 04
0208	NEURO (HUMAN)	01 02 04
0209	NEURO (ANIMAL)	01 02 04
0210	ACUTE TOX. (HUMAN)	01 02 04
0211	CHR. TOX. (HUMAN)	01 02 04
0212	ACUTE TOX. (ANIMAL)	01 02 04
0213	SUB ACUTE TOX (ANIMAL)	01 02 04
0214	SUB CHRONIC TOX (ANIMAL)	01 02 04
0215	CHRONIC TOX (ANIMAL)	01 02 04

INFORMATION TYPE:		P F C
0216	EPI/CLIN	01 02 04
0217	HUMAN EXPOS (PROD CONTAM)	01 02 04
0218	HUMAN EXPOS (ACCIDENTAL)	01 02 04
0219	HUMAN EXPOS (MONITORING)	01 02 04
0220	ECO/AQUA TOX	01 02 04
0221	ENV. OCCC/REL/FATE	01 02 04
0222	EMER INCI OF ENV CONTAM	01 02 04
0223	RESPONSE REQEST DELAY	01 02 04
0224	PROD/COMP/CHEM ID	01 02 04
0225	REPORTING RATIONALE	01 02 04
0226	CONFIDENTIAL	01 02 04
0227	ALLERG (HUMAN)	01 02 04
0228	ALLERG (ANIMAL)	01 02 04
0239	METAB/PHARMACO (ANIMAL)	01 02 04
0240	METAB/PHARMACO (HUMAN)	01 02 04

INFORMATION TYPE:		P F C
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

TRIAGE DATA:	NON-CBI INVENTORY	ONGOING REVIEW	SPECIES	TOXICOLOGICAL CONCERN:	USE:	PRODUCTION:
	YES	YES (DROP/REFER)	RAT GP	LOW		
CAS SR	NO	NO (CONTINUE)		MED		
	IN TRANSIT	REFER		HIGH		

COMMENTS

8(E)-12482A

M/L/H

ACUTE ORAL TOXICITY IN RATS IS OF MEDIUM CONCERN BASED ON AN LD50 BETWEEN 100 MG/KG AND 200 MG/KG. GROUPS OF 5 RATS WERE ADMINISTERED 100-1600 MG/KG OF THE TEST SUBSTANCE AS A 70% SOLUTION IN WATER OR 50-800 MG/KG OF THE TEST SUBSTANCE AS A 5% SOLUTION IN WATER. CLINICAL SIGNS INCLUDED WEAKNESS, SQUEALING, ATAXIA AND CONVULSIONS. DOSE VERSUS MORTALITY DATA WERE NOT REPORTED.

DERMAL IRRITATION IN GUINEA PIGS IS OF LOW CONCERN BASED ON BLEEDING FROM NOSE AND MORTALITY (9/9) FROM EXPOSURE TO 5-20 CC/KG (5000-20,000 MG/KG) AS 70%, 35%, OR 10% SOLUTIONS IN WATER. IRRITANCY, JUDGED IN DEAD ANIMALS, WAS MODERATE. NO OTHER INFORMATION WAS SUBMITTED WITH REPORT.

DERMAL SENSITIZATION IN GUINEA PIGS IS OF HIGH CONCERN BASED ON SENSITIZATION (4/5) AFTER A 10-DAY EXPOSURE TO 1% TEST SUBSTANCE IN WATER. NO OTHER INFORMATION WAS SUBMITTED WITH REPORT.