

**EASTMAN**

Eastman Chemical Company  
P. O. Box 431  
Kingsport, Tennessee 37662

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OPPT CBIC

98 JUN 19 AM 11:25

8EHQ - 0698-14207  
MR 7246

June 10, 1998

Office of Pollution Prevention and Toxics  
U. S. Environmental Protection Agency  
401 M Street, S.W.  
Washington, DC 20460

Attention: TSCA 8(e) Coordinator

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

**Contains No CBI**

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98 JUN 25 AM 9:43

Ladies and Gentlemen:

Eastman Chemical Company submits the following report as required under TSCA §8(e) for your consideration.

8(e)98-5 One-Week, Nose-Only Inhalation Toxicity Study of  
Cyclopropanemethanol in Rats (Preliminary Results)

If you have questions, you may contact me by telephone at (423) 229-4274 or the technical contact, Karen R. Miller, Ph.D., at (423) 229-1654.

Very truly yours,

  
F. David Petke, Ph.D.  
Senior Technical Associate  
Product Safety and Stewardship

8EHQ-98-14207

cc: 8(e) file

8(e)9805.doc



TSCA HEALTH & SAFETY STUDY COVER SHEET - revised 6/25/96

TSCA CBI STATUS:

CHECK IF THIS PAGE CONTAINS CONFIDENTIAL BUSINESS INFORMATION (CBI)

Clearly mark the confidential information with bracketing and check the box in the appropriate section ( Contains CBI).  
Submit a sanitized cover sheet with CBI deleted. Mark the sanitized copy, "Public Display Copy" in the heading.

**1.0 SUBMISSION TYPE**  Contains CBI Submission date: June 10, 1998

8(d)  8(e)  FYI  4  Other: specify

Initial submission  Follow-up submission  Final report submission

Previous EPA Submission or Title if Update or Follow-up: Docket Number, if any: # 8EHQ-0896-13706  
Acute Oral Toxicity Study in the Rat

continuation sheet attached

<b>2.1 SUMMARY/ABSTRACT ATTACHED</b>	<b>2.2 SUBMITTER TRACKING NUMBER OR INTERNAL ID</b>	<b>2.3 FOR EPA USE ONLY</b>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8(e)98-5	

**3.0 CHEMICAL/TEST SUBSTANCE IDENTITY**  Contains CBI

*Reported Chemical Name (specify nomenclature if other than CAS name):*  
Cyclopropanemethanol

CAS #: 2516-33-8  
Purity: 100%  
 Single Ingredient

Commercial/Technical Grade  
 Mixture Trade Name: Common Name: Same

Other chemical(s) present in tested mixture	CAS Number	Name
	N/A	

continuation sheet attached



**4.0 REPORT/STUDY TITLE**  Contains CBI **8EHQ-98-14207**

One-Week, Nose-Only Inhalation Toxicity Study of Cyclopropanemethanol in rats. (Preliminary Results)

continuation sheet attached

**5.1 STUDY/TSCATS INDEXING TERMS** [CHECK ONE]

HEALTH EFFECTS (HE):  ENVIRONMENTAL EFFECTS (EE):  ENVIRONMENTAL FATE (EF):

**5.2 STUDY/TSCATS INDEXING TERMS** (see instructions for 4-digit codes)

STUDY TYPE: STOX	SUBJECT ORGANISM (HE,EE only): RATS	ROUTE OF EXPOSURE (HE only): INHL	VEHICLE OF EXPOSURE (HE only):
Other:	Other:	Other:	Other: AIR

**6.0 REPORT/STUDY INFORMATION**  Contains CBI  Study is GLP

Laboratory: Health and Environment Laboratories, Eastman Kodak Company Report/Study Date: Not yet available  
1100 Ridgeway Avenue, Rochester, NY 14652

Source of Data/Study Sponsor (if different than submitter) Number of Pages: Not yet known

continuation sheet attached

**7.0 SUBMITTER INFORMATION**  Contains CBI

Submitter: W. M. Dyer, Jr., MD Title: Technical Fellow, Product Safety and Stewardship Phone: (423) 229-3538

Company Name: Eastman Chemical Company Company Address: P. O. Box 431, Kingsport TN 37662-5280

Submitter Address (if different):  
Technical Contact: Karen R. Miller, Ph.D. Phone: (423) 229-1654

continuation sheet attached

**8.0 ADDITIONAL/OPTIONAL STUDY COMMENTS**  Contains CBI

continuation sheet attached



Submitter Signature: W. Mills Dyer, Jr., M.D. Date: 6/10/98

9.0 CONTINUATION SHEET

TSCA CBI STATUS:

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Submitter Tracking Number/Internal ID

8(e)98-5

Preliminary Results from a 1-Week Nose-Only Inhalation Toxicity Study of  
Cyclopropanemethanol (CPMO)

In this study, male and female Sprague-Dawley rats were exposed to nominal concentrations of 0, 0.25, 0.5, or 1.0 mg/l of CPMO for 6 hours per day, for a total of 6 exposures during an 8-day period. A preliminary oral report from the laboratory indicates that within the testes of 4 of 5 high-concentration males there were scattered seminiferous tubules which contained small numbers of multinucleated spermatid giant cells. These degenerative cells were present in only small numbers but were *not* found within the sections of testicle examined from the control males. Two males from the low and mid-concentration groups had very small numbers of degenerative spermatids within the lumens of rare seminiferous tubules. These cells were not of the giant cell type and *may* represent a normal degree of background spermatid apoptosis. It is therefore not clear that any exposure-related effect is present on the testes of male rats except in the high concentration group.

A previous submission reported similar effects noted in the high dose animals (1 mg/l) in a 4-week inhalation study (whole body exposure). Heart and liver lesions were also noted at all dose levels in both studies, but the effect/ppm/exposure hours were not significantly different in this study from those reported in the 4-week study. A no-observed-effect-level was not determined in this study.

A copy of the final report will be provided when it is completed.