

8EHQ-0802-13706

**EASTMAN**

Eastman Chemical Company  
Kingsport, Tennessee 37662

Phone: (423) 229-2000

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2002 AUG 20 PM 12:06

MR 61291

August 13, 2002

U.S. Environmental Protection Agency  
Office of Pollution Prevention & Toxics  
1200 Pennsylvania Avenue, NW  
Mail Code 7401M  
Washington, DC 20460

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Ladies and Gentlemen:

Eastman Chemical Company submits the following preliminary information as required under TSCA §8(e) for your consideration: Results from a Four-Week Inhalation Toxicity Study of Cyclopropanemethanol in the Rabbit.

The 8(e) reference number for previous submissions for this substance is **8EHQ-0896-13706**.

If you have questions, you may contact me by telephone at (423) 229-1654.

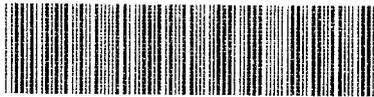
Very truly yours,

*Karen R. Miller*

Karen R. Miller  
Technical Associate  
Product Safety & Stewardship

cc: 8(e) file

8(e)2002-CPMO rabbit.doc



8EHQ-96-13706



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Contain NO CBI

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Responsible Care:<sup>®</sup>  
A Public Commitment

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.

<b>1.0 SUBMISSION TYPE</b> <input type="checkbox"/> Contains CBI <input type="checkbox"/> 8(d) <input checked="" type="checkbox"/> 8(e) <input type="checkbox"/> FYI <input type="checkbox"/> 4 <input type="checkbox"/> Other: specify <input checked="" type="checkbox"/> Initial submission <input type="checkbox"/> Follow-up submission <input type="checkbox"/> Final report submission Previous EPA Submission or Title if Update or Follow-up: Four-Week Inhalation Toxicity Study in the Rat <input type="checkbox"/> continuation sheet attached		Submission date: November 12, 2001  Docket Number, if any:								
<b>2.1 SUMMARY/ABSTRACT ATTACHED</b>  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>2.2 SUBMITTER TRACKING NUMBER OR INTERNAL ID</b>  2002-CPMO rabbit	<b>2.3 FOR EPA USE ONLY</b>								
<b>3.0 CHEMICAL/TEST SUBSTANCE IDENTITY</b> <input type="checkbox"/> Contains CBI CAS #: 2516-33-8 <u>Reported Chemical Name (specify nomenclature if other than CAS name):</u> Purity: 99.6%    Cyclopropanemethanol <input checked="" type="checkbox"/> Single Ingredient <input type="checkbox"/> Commercial/Technical Grade <input type="checkbox"/> Mixture    Trade Name:    Common Name: Same <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;"></th> <th style="width:20%; text-align: center;">CAS Number</th> <th style="width:20%; text-align: center;">Name</th> <th style="width:10%; text-align: center;">% WEIGHT</th> </tr> </thead> <tbody> <tr> <td>Other chemical(s) present in tested mixture</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> continuation sheet attached				CAS Number	Name	% WEIGHT	Other chemical(s) present in tested mixture			
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<b>4.0 REPORT/STUDY TITLE</b> <input type="checkbox"/> Contains CBI Four-Week Inhalation Toxicity Study of Cyclopropanemethanol in the Rabbit. (Preliminary Results) <input type="checkbox"/> continuation sheet attached										
<b>5.1 STUDY/TSCATS INDEXING TERMS</b> [CHECK ONE] HEALTH EFFECTS (HE): <input checked="" type="checkbox"/> ENVIRONMENTAL EFFECTS (EE):    ENVIRONMENTAL FATE (EF):										
<b>5.2 STUDY/TSCATS INDEXING TERMS</b> (see instructions for 4-digit codes) <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%;">STUDY TYPE: STOX <i>Other:</i></td> <td style="width:33%;">SUBJECT ORGANISM (HE,EE only): RABBIT <i>Other:</i></td> <td style="width:33%;">ROUTE OF EXPOSURE (HE only): INHL <i>Other:</i></td> </tr> <tr> <td></td> <td></td> <td>VEHICLE OF EXPOSURE (HE only): <i>Other:</i> AIR</td> </tr> </table>			STUDY TYPE: STOX <i>Other:</i>	SUBJECT ORGANISM (HE,EE only): RABBIT <i>Other:</i>	ROUTE OF EXPOSURE (HE only): INHL <i>Other:</i>			VEHICLE OF EXPOSURE (HE only): <i>Other:</i> AIR		
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		VEHICLE OF EXPOSURE (HE only): <i>Other:</i> AIR								
<b>6.0 REPORT/STUDY INFORMATION</b> <input type="checkbox"/> Contains CBI <input checked="" type="checkbox"/> Study is GLP Laboratory: <u>Health and Environment Laboratories, Eastman Kodak Company</u> <u>1100 Ridgeway Avenue, Rochester, NY 14652</u> Source of Data/Study Sponsor (if different than submitter) <input type="checkbox"/> continuation sheet attached										
Report/Study Date: <u>Not yet available</u> Number of Pages: <u>Not yet known</u>										
<b>7.0 SUBMITTER INFORMATION</b> <input type="checkbox"/> Contains CBI Submitter: <u>Karen R. Miller</u> Title: <u>Technical Associate</u> Phone: <u>(423) 229-1654</u> Company Name: <u>Eastman Chemical Company</u> Company Address: <u>P. O. Box 5111, Kingsport TN 37662-5054</u> Submitter Address (if different): Technical Contact: <u>Karen R. Miller, Ph.D.</u> <input type="checkbox"/> continuation sheet attached Phone: <u>(423) 229-1654</u>										
<b>8.0 ADDITIONAL/OPTIONAL STUDY COMMENTS</b> <input type="checkbox"/> Contains CBI  <input type="checkbox"/> continuation sheet attached										

Submitter Signature: Karen R. Miller

Date: 8/13/02

MR 61291

9.0 CONTINUATION SHEET

TSCA CBI STATUS:

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Submitter Tracking Number/Internal ID

2002-CPMO rabbit

Preliminary Results from a 4-Week Inhalation Toxicity Study of  
Cyclopropanemethanol (CPMO) in Rabbits

Male albino, New Zealand White Rabbits were exposed to target vapor concentrations of 1.0, 0.3, 0.03, or 0 mg/L (339, 102, 10, or 0 ppm) of the test substance 6 hours per day, 5 days per week (excluding one holiday) for 22 exposures. On day one of the study, it was discovered that the 1.00 mg/L group had inadvertently been populated with four male rabbits and one female rabbit. One 1.00 mg/L animal was found dead on Day 1 (female), and another (male) was found dead on Day 7. The three remaining 1.00 mg/L animals were euthanatized *in extremis* on Day 10. One 0.3 mg/L animal was found dead on Day 26. All other animals survived to scheduled sacrifice. No mortality was observed for the 0.03 and 0 mg/L groups. Animals were observed for clinical signs of toxicity each morning, once per hour during each exposure, and immediately after termination of each exposure. Body weights and feed consumption were measured weekly. Mean body weights, body weight gains, feed consumption, and feed utilization were comparable among the 0.3 and 0.03 mg/L groups and controls throughout the study. On Day 30 the main study animals were anesthetized. Fasted body weights and selected organ weights were measured at necropsy. Selected tissues were collected from all animals. Test substance-related gross lesions observed at necropsy were restricted to the finding of clear fluid in either the abdominal or thoracic cavity of three 1.00 mg/L rabbits; the pathologist considered this finding suggestive of heart failure. Test substance-related microscopic lesions were restricted to the heart, and consisted of myocardial fiber necrosis, myocardial fiber degeneration, myocardial fiber vacuolation, and myocarditis. For the 1.00 mg/L group, these cardiac lesions consisted of myocardial fiber necrosis for all rabbits, myocardial fiber degeneration for a single rabbit, and myocardial fiber vacuolation for a single rabbit. In addition, an increased severity of myocarditis was observed for the 1.0 mg/L group. For the 0.3 mg/L group, the test substance-related changes consisted of myocardial fiber necrosis and myocardial fiber vacuolation for the rabbit that died on Day 26. No other exposure-related changes were observed during the histopathology examinations.

Based on the cardiac lesions observed in one rabbit exposed to 0.3 mg/L of the test substance, the no-observed-effect concentration (NOEC) is considered to be 0.03 mg/L (10 ppm).