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

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1.0 SUBMISSION TYPE <input type="checkbox"/> Contains CBI <input checked="" type="checkbox"/> 8(d) <input 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 Number or Title if update or follow-up: _____ Docket Number, if any: # _____ <input type="checkbox"/> continuation sheet attached										
2.1 SUMMARY/ABSTRACT ATTACHED (may be required for 8(e): optional for §4, 8(d) & FYI) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	2.2 SUBMITTER TRACKING NUMBER OR INTERNAL ID	2.3 FOR EPA USE ONLY								
3.0 CHEMICAL/TEST SUBSTANCE IDENTITY <input type="checkbox"/> Contains CBI Reported Chemical Name (specify nomenclature if other than CAS name): CAS# <u>94-96-2</u> Purity <u>98.5%</u> <input type="checkbox"/> Single Ingredient <input checked="" type="checkbox"/> Commercial/Tech Grade <input type="checkbox"/> Mixture Trade Name: _____ Common Name: <u>Octanediol</u> <table border="1"> <thead> <tr> <th>CAS Number</th> <th>NAME</th> <th>% WEIGHT</th> </tr> </thead> <tbody> <tr> <td></td> <td><u>1,3-Hexanediol, 2-ethyl-</u></td> <td></td> </tr> </tbody> </table> Other chemical(s) present in tested mixture: _____ <input type="checkbox"/> continuation sheet attached			CAS Number	NAME	% WEIGHT		<u>1,3-Hexanediol, 2-ethyl-</u>			
CAS Number	NAME	% WEIGHT								
	<u>1,3-Hexanediol, 2-ethyl-</u>									
4.0 REPORT/STUDY TITLE <input type="checkbox"/> Contains CBI <u>Preliminary Biodegradability Study of Octanediol</u> <input type="checkbox"/> continuation sheet attached										
5.1 STUDY/TSCATS INDEXING TERMS [CHECK ONE] HEALTH EFFECTS (HE): _____ ENVIRONMENTAL EFFECTS (EE): _____ ENVIRONMENTAL FATE (EF): <input checked="" type="checkbox"/>										
5.2 STUDY/TSCATS INDEXING TERMS (see instructions for 4 digit codes) <table border="1"> <thead> <tr> <th>STUDY TYPE</th> <th>SUBJECT ORGANISM (HE, EE only):</th> <th>ROUTE OF EXPOSURE (HE only):</th> <th>VEHICLE OF EXPOSURE (HE only):</th> </tr> </thead> <tbody> <tr> <td><u>BOEG</u></td> <td>Other: _____</td> <td>Other: _____</td> <td>Other: _____</td> </tr> </tbody> </table>			STUDY TYPE	SUBJECT ORGANISM (HE, EE only):	ROUTE OF EXPOSURE (HE only):	VEHICLE OF EXPOSURE (HE only):	<u>BOEG</u>	Other: _____	Other: _____	Other: _____
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<u>BOEG</u>	Other: _____	Other: _____	Other: _____							
6.0 REPORT/STUDY INFORMATION <input type="checkbox"/> Contains CBI <input type="checkbox"/> Study is GLP Laboratory <u>Hodogaya Contract Laboratory</u> Report/Study _____ Date <u>2/27/98</u> Source of Data/Study Sponsor (if different than submitter) _____ Number of pages _____ <input type="checkbox"/> continuation sheet attached										
7.0 SUBMITTER INFORMATION <input type="checkbox"/> Contains CBI Submitter: _____ Title _____ Phone: (____) _____ Company Name: _____ Company Address: _____ Submitter Address (if different): _____ Technical Contact: _____ Phone: (____) _____ <input type="checkbox"/> continuation sheet attached										
8.0 ADDITIONAL/OPTIONAL STUDY COMMENTS <input type="checkbox"/> Contains CBI <input type="checkbox"/> continuation sheet attached										

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Submitter Signature: _____ Date: Nov 10 06

MR 300108

Study number: D-9712

Study Report

Preliminary Biodegradability Study of Octanediol

(Study number: D-9712)

February 27, 1998

Hodogaya Contract Laboratory Co., Ltd.

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Study number: D-9712

Summary

1. Study number and study title

D-9712, Preliminary Biodegradability Study of Octanediol

2. Ready biodegradability study

2.1 Conditions of cultivation

- ① Concentration of test substance 100 mg/L
- ② Concentration of activated sludge 30 mg/L concentration of suspended solid
- ③ Volume of culture medium 300 ml
- ④ Cultivation temperature 25 ± 1°C
- ⑤ Cultivation duration 28 days

2.2 Measurement and analysis

- ① Measurement of biochemical oxygen demand (BOD) by the closed system oxygen consumption measuring apparatus
- ② Determination of the residual amount of test substance by Total Organic Carbon detector (TOC).
- ③ Determination of the residual amount of test substance by Gas Chromatography (GC)

3. Results

(1) Percentage biodegradation by BOD	78%	83%	81%	Ave.	81%
(2) Percentage biodegradation by TOC	101%	100%	100%	Ave.	100%
(3) Percentage biodegradation by GC	> 93%	> 93%	> 93%	Ave	> 93%
(4) Residual percentage					
① Water + Test substance					101%
② Sludge + Test substance	< 7%	< 7%	< 7%	Ave.	< 7%

4. Conclusion

As found in this study that the BOD, TOC and GC degradation of test substance were 81% (mean), 100% (mean) and > 93% (mean).

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