

FYI-1003-01471

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Shaun.Clancy@degussa.com
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October 6, 2003



Document Processing Center
EPA East (Mail Code 7407M)
Attn: TSCA Section 8(e)
U.S. Environmental Protection Agency
1201 Constitution Avenue, NW
Washington, DC 20460-0001

Contain NO CBI



Dear Madam or Sir:

Enclosed are summaries of 43 toxicology studies conducted by or for Degussa AG in Germany. These summaries reflect the results of one or more studies conducted on each of 21 chemical substances. Twelve of the summaries include information which we are reporting pursuant to Section 8(e) of the Toxic Substances Control Act (TSCA). The remaining nine studies include information that suggests that the test substance may cause adverse health or environmental effects at high exposure levels. However, because these substances are manufactured or imported in the United States only in limited quantities for use as intermediates in chemical synthesis, they do not currently present a substantial risk to health or the environment. We are therefore submitting them to EPA on a "For Your Information" basis.

These 21 summaries are being submitted pursuant to a data review that Degussa is conducting in connection with its implementation of a new computer system that will permit Degussa Corporation in the United States to access data previously available only to Degussa AG in Germany. Recognizing that a large number of these studies might need to be reported under TSCA 8(e), Degussa proactively contacted EPA in mid 2002 and proposed to review the studies in batches and submit any 8(e) reportable data to EPA within 15 business days (now 30 calendar days) of completing its review of each batch. Degussa estimated that the review would take approximately six month to complete. In a memorandum received in November 2002, the Agency concurred in this approach.

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These studies were made available to Degussa Corporation in April 2003. Degussa's toxicologists in Germany have reviewed more than 750 studies on approximately 100 chemical substances and prepared English summaries of the results of 70 studies for evaluation by scientists in the United States for reporting under TSCA Section 8(e). This submission represents Degussa's review of this first batch of studies by our scientists in Germany and the United States, which was completed on September 12, 2003. Degussa has determined that approximately 1500 studies remain to be reviewed. As we have separately informed Ms. Ann Pontius of the Toxics and Pesticides Enforcement Division, we estimate that the review of the remaining studies will take an additional nine months to complete. We will continue to submit reportable and FYI studies to EPA as our review of subsequent batches is completed.

We appreciate your attention to this matter and request your comments regarding the approach we have taken. Please do not hesitate to call me at (973) 541-8047 if you have any questions or wish to discuss this matter further.

Best regards,

A handwritten signature in cursive script that reads "Shaun Clancy". The signature is written in black ink and is positioned above the printed name.

Shaun F. Clancy, Ph.D.

1 **From** 10/13/00
To S. Clancy Phone 933 571-8017

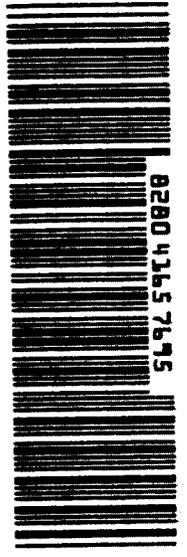
Company Degussa Corporation
Address 379 Enterprise Drury

City Perryopolis **State** NJ **ZIP** 07855

2 **Your Internal Billing Reference**

3 **To Recipient's** TSCA (E) Coordinator Phone 202 564-9440
Name US EPA - Document Control Officer

Address OPPTS, 7402
 1700 Pennsylvania Ave. NW
 Washington DC ZIP 20460



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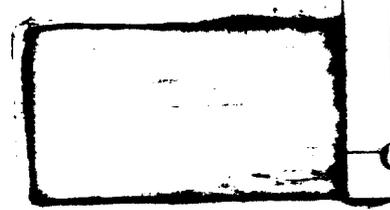
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7 **Payment Method**
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 Sender's Account **Third Party** **Credit Card**

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 Total Weight: 276
 Total Declared Value: 10.00

9 **Release Signature**
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 Title: [Blank]



404

Memo

To: File
From: Shaun Clancy
CC:
Date: 10/06/03
Re: TSCA 8(e) Review – 2163-00-0

Two endpoints were provided by Fine Chemicals for 2163-00-0 1,6-Dichlorohexane

- Algal Inhibition Test (*Scenedesmus subspicatus*)
- Acute Fish Tox (Golden orfe)

This chemical is used as an intermediate in organic synthesis and is not expected to be used in a way such that human exposure outside of an industrial setting will occur or that an environmental exposure will result. Appropriate Personal Protective Equipment is specified in the MSDS as is warnings not to allow the substance to be released. When used correctly the risk for human and environmental exposure is minimal.

The results of the algal and fish tox studies indicate a level of toxicity that is of moderate concern but, given the use pattern, the result is probably not reportable under TSCA 8(e). The results will be submitted on an FYI basis.

Contains No CBI

degussa.

Fax

To: Shaun Clancy
S-SR-US-EHS

Fax-No. Recipient: 001-973 541 8040

Pages (total): 04

cc: Dr. W. Mayr/FC-TME-CSM

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Fine chemicals
Chemicals Safety
Management

Initial notice of information for possible TSCA 8e submission
1,6,-Dichlorohexane, CAS No. 2163-00-0

FC-TME-CSM/Dr.Jbi/sch

Dear Shaun,

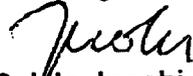
July 14, 2003

please find attached data obtained for the above mentioned
substance for assessment of possible TSCA reportability depending
on the exposure situation.

I am at your disposal for any further questions.

I attach a short summary of the data together with the English
summary of the reports.

Best regards


Sylvia Jacobi

degussa.

**Initial Notice of Information to be assessed for Possible TSCA,
Sec. 8e Reporting**

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Germany

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F +49 6181 59-2083

Fine chemicals
Chemicals Safety
Management
July 14, 2003

Name / Trade name of the Substance	1,6-Dichlorohexane
CAS-No.:	2163-00-0

Human Health Effects

Environmental Effects

Degussa-Study-No.:	87-0472-DKO 87-0474-DKO
Other Source of information:	

Summary of Adverse Effects:

Source, Degussa AG unpublished report No. 87-0472-DKO, summary report only available

Guideline: DIN Draft 38412 part 12, non-GLP

Algae assimilation inhibition test with *scenedesmus subspicatus*

EC50 = 12.9 mg/l

Endpoint: reduction of O₂ liberation (assimilation)

Source, Degussa AG internal report No. 87-0474-DKO, summary report only available

Guideline: DIN 38412 part 15 acute toxicity to fish, golden orfe, *leuciscus idus melanotus*. A solubilizer was added to the solution.

LC50 = 21.9 mg/l

The ecotoxicological data suggest that the test substance is of moderate concern to the aquatic environment.

Nature and Extent of Risk Involved:
Depending on the exposure situation.

Information by	Date:
Dr. Sylvia Jacobi FC-TME-CSM	July 14, 2003

HÜLS AG
Ps - Biology/Toxicology

Marl, 10/8/87

October 15, 1987
No. ___0340

Re: Golden orfe test according to DIN 38412 Part 15
Product: 1,6-DICHLOROHEXANE
Research Report No.: F774
Registration No. (Ps) 169/861217
Dissolution aid: Marlowet EF
Customer: Dr. Scheubel
Date trial conducted: 9/28/87

The above-referenced product was tested for its ecotoxicologic action on golden orfes (*Leuciscus idus melanorus*). The concentration of the product that has lethal action on half the test animals is calculated from the dose-response relationship. The exposure time is 48 hr.

The mean lethal concentration is calculated from the test data at

$$LC_{50} = 21 \text{ mg/L}$$

[Signature]
(Dr. N. Scholz)

0 0340/12

Degussa-Hüls AG - REG No.
87 - 0474 - DKO

1,6-Dichlorhexan_F774_e.doc

HÜLS AG
Ps - Biology/Toxicology

Marl, 12/14/87

Re: Assimilation test according to DIN Draft 38412 Part 12

Product: 1,6-DICHLOROHEXANE

Research Report No.: A98

Registration No. (Ps) 169/861217

Customer: Hüls AG

Date trial conducted: 12/8/87

The above-referenced product was investigated for its ecotoxicological action toward the alga *Scenedesmus subspicatus* using the assimilation inhibition test. The inhibition of oxygen release as a function of product concentration was measured.

The concentration at which the assimilation rate is reduced by half is calculated from the dose-response relationship. The same holds true for the values of the 10% and 90% inhibition. The test time is 24 hr.

The following characteristic data are calculated from the test data:

EC 10 = 4.7 mg/L
 EC 50 = 12.9 mg/L
 EC 90 = 35.3 mg/L

The concentration refers to the product.

Comments: 26 mg DOC/L = 56 mg product/L.

[Signature]
(Dr. N. Scholz)

0745/12

Degussa-Hüls AG - REG No.

87 - 0472 - DKO

1,6-Dichlorhexan_A98_e.doc