



BEHQ-97-13911



DuPont Specialty Chemicals

DuPont Specialty Chemicals
Jackson Laboratory
Chambers Works
Deepwater, NJ 08023
USA

8 ENQ. 04 97-13911

March 27, 1997

A

CSRAD

Certified Mail—Return Receipt Requested

Document Processing Center
Attention: Section 8(e) Coordinator
Office of Prevention, Pesticides & Toxic Substances
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460

6-4-97 SOC

Contains NO CBI

97 APR -1 11:11:44
RECEIVED

Dear Sir/Madam:

**1,3-Benzenedicarboxylic Acid, 5-sulfo-Monosodium Salt,
Compounded with 1,6-Hexamethylene Diamine (1:1) CAS #51178-75-7**

This letter is to notify you of the results of a skin sensitization study recently conducted with the subject chemical. Results showed that the compound is a skin sensitizer to guinea pigs.

The test was conducted using the Guinea Pig Maximization (Skin Sensitization) Test of Magnusson and Kligman. Ten test and five control animals were used. Based on the results of a preliminary rangefinding study, the following doses were tested: for intradermal injection — 7.5% w/v in water; for topical application — 80% w/v in distilled water; for the challenge application — 40 and 20% w/v in distilled water.

Evidence of skin sensitization (delayed contact hypersensitivity) was seen in all ten test animals.

The subject chemical is used industrially as a monomer in polymer manufacture. All manufacture and processing is in closed equipment with the various reactors and process vessels hard-piped to each other. Thus, worker contact with the chemical is minimal. Nevertheless, due to the strongly irritating properties of one of its components, hexamethylenediamine, DuPont workers handling this compound are required to wear appropriate eye and skin protection. Engineering controls and respirators are used to minimize inhalation exposure potential.

Considering the handling controls already in place, DuPont believes that the risk (skin sensitization) associated with these results is already being properly managed. However, these results will be incorporated into the test compound's MSDS and the existing handling procedures and controls will be reevaluated to ensure worker protection against skin sensitization.



88970000161

Chambers Works, Deepwater, New Jersey 08023-0999

Fax: 609-540-4463

Tel: 609-540-4576

RECEIVED

Document Processing Center
US EPA
Page 2
March 27, 1997

DuPont believes that based on existing controls, these results do not constitute substantial additional risk. Nevertheless, EPA is being notified in accordance with Agency guidance on the reportability of such data, as defined by criteria described in EPA's June 1991 8(e) Reporting Guide.

Feel free to call me on (609) 540-4576 if there are any questions.

Yours truly,

A handwritten signature in black ink, appearing to read "K.D. Dastur", with a horizontal line extending to the right from the end of the signature.

Kavsy D. Dastur
Manager, Product Toxicology & Chemical
Regulations

/mn
Certified
Z226 336 656

TRIAGE of 8(e) Submissions

Date sent to triage: _____

NON-CAP

CAP

Submission number: 13911 A

TSCA Inventory: Y N D

STUDY TYPE (circle appropriate):

Ernest Falke (E605C)

ATOX

SBTOX

~~SEN~~

CARC

Gordon Cash (E425)

ECO

AQUATO

Katherine Anitole (E613B)

RTOX/DTOX

Daljit Sawhney (E611A)

CTOX

STOX

Deborah Norris (E606)

NEUR

Elizabeth Margosches (E613C)

EPI

Michael Cimino (E611D)

GTOX

Leonard Keifer (E611C)

Metabolism/Pharmacokinetics

OTHER: _____

NOTES:

“13911A”=H”=“A SUMMARY LETTER INDICATES THE RESULTS OF A GUINEA PIG MAXIMIZATION STUDY (MAGNUSSON & KLIGMAN) WITH 1,3-BENZENEDICARBOXYLIC ACID, 5-SULFO-MONOSODIUM SALT, COMPOUNDED WITH 1,6-HEXAMETHYLENE DIAMINE (1:1) (CAS NO.- 051178-75-7). ACTUAL STUDY DATA WERE NOT PROVIDED. DOSES TESTED WERE: 7.5% W/V IN WATER (INTRADERMAL INJECTION); 80% W/V IN WATER (TOPICAL APPLICATION); AND 40% AND 20% W/V IN WATER (TOPICAL CHALLENGE). FOLLOWING CHALLENGE, 10/10 TEST ANIMALS SHOWED EVIDENCE OF DELAYED CONTACT HYPERSENSITIVITY.”