

Study Title

Corrositex™ In Vitro Test with H-21333

Laboratory Project ID

Haskell Laboratory Report No. 708-95

Author

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Study Completed On

October 9, 1995

Performing Laboratory

E. I. du Pont de Nemours and Company
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[REDACTED]

GENERAL INFORMATION

Substance Tested:

[REDACTED]

Synonyms:

• H-21333

[REDACTED]

Physical Form:

Off-white solid

Composition:

[REDACTED]

Contaminant:

[REDACTED]

Purity:

[REDACTED]

CAS Registry No.:

[REDACTED]

Sponsor:

DuPont Specialty Chemicals
E. I. du Pont de Nemours and Company
Wilmington, Delaware

Study Initiated - Completed:

9/22/95 - 10/9/95

In Life Phase

Initiated - Completed:

9/22/95 - 9/22/95

Corrositex™ In Vitro Test with H-21333

SUMMARY

H-21333 was evaluated for skin corrosion potential using the In Vitro International Corrositex™ assay. The results of the assay were used to determine the United Nations' corrosive packing group. Corrositex™ is a standardized and quantitative in vitro corrosivity test. The model is based on the time required for the test substance to pass through a biobarrier membrane and produce a change in a chemical detection system.

Approximately 0.5 g of H-21333 was applied to each of 4 membrane discs. The test substance passed through the membranes 97-122 minutes after application. Under the conditions of this test, H-21333 is a corrosive substance and is assigned to Packing Group III.

Reviewed and
Approved for Issue:

Carol Finlay 10/9/95
Carol Finlay
Study Director

CF/alw

INTRODUCTION

The purpose of this study was to determine skin corrosion potential of H-21333 using the In Vitro International Corrositex™ assay kit. The results of the assay were used to determine the United Nations' Packing Group.

MATERIALS AND METHODS

A. Protocol

The biobarrier membrane discs were prepared on the day the assay was run. For the assay, a membrane disc was placed onto each of the 5 scintillation vials containing the chemical detection system (CDS). Approximately 0.5 g of H-21333 was placed on top of the discs of 4 vials. One vial was similarly treated with a positive control (sodium hydroxide). Each vial was observed for an alteration in the CDS. This alteration may include color changes, flaking, or precipitation.

B. Records Retention

All raw data and the final report will be stored in the archives of Haskell Laboratory for Toxicology and Industrial Medicine, E. I. du Pont de Nemours and Company, Newark, Delaware or in the DuPont Records Management Center, Wilmington, Delaware.

RESULTS AND CONCLUSIONS

Breakthrough of the biobarrier occurred as follows:

Vial 1 (Positive Control) - 6 minutes

Vial 2 (H-21333) - 112 minutes

Vial 3 (H-21333) - 122 minutes

Vial 4 (H-21333) - 105 minutes

Vial 5 (H-21333) - 97 minutes

Average time for vials 2, 3, 4, and 5 = 109 minutes

Under the conditions of this test, H-21333 is a corrosive substance and is placed in Packing Group III.