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CODING FORMS FOR SRC INDEXING

| Microfiche No. | | |
|---|---|---|
| OTS0574147 | | |
| New Doc ID | Old Doc ID | |
| 88010000124 | 8EHQ-0401-14913 | |
| Date Produced | Date Received | TSCA Section |
| 04/26/01 | 04/27/01 | 8E |
| Submitting Organization | | |
| E I DUPONT DE NEMOURS & CO | | |
| Contractor | | |
| | | |
| Document Title | | |
| INITIAL SUBMISSION: LETTER FR DUPONT TO USEPA REPORTING PRELIMINARY RESULTS OF 4-WEEK INHALATION TOX STUDY OF N-VINYLCARBAZOLE IN RATS DATED 042601 | | |
| Chemical Category | | |
| N-VINYLCARBAZOLE | | |

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April 26, 2001

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Dear 8(e) Coordinator:

n-Vinylcarbazole
CAS #1484-13-5

This letter is to inform you of the preliminary results of a four-week inhalation toxicity study that was recently conducted with the above referenced test material.

Fifteen male and 15 female rats per group were exposed nose-only to aerosol/vapor concentrations of approximately 0, 2, 9, or 44 mg/m$^3$ of the test material for 6 hours/day, 5 days/week over a 4 week period. Ten male and 10 female rats/group were sacrificed one day after the final exposure and the remaining rats after a four-week recovery period.

No effects were observed on body weights and no significant clinical observations were noted during the exposure phase or recovery phase of the study. However, pathological effects were observed at all test material concentrations in exposed male and female rats. The effects were confined to the upper respiratory tract and consisted of degeneration/necrosis of olfactory epithelium, mucoid depletion of goblet cells, squamous metaplasia and hyperplasia of respiratory epithelium in the anterior nasal passages and squamous metaplasia of the larynx. At the end of the four-week recovery period, the depletion of goblet cells in the noses of female rats was no longer present, and was of decreased severity in the male rats; however, the olfactory epithelial degeneration/necrosis was still present in both sexes.

Under these experimental conditions, the findings described above appear to be reportable, based upon guidance given in the EPA TSCA Section 8(e) Reporting Guide (June 1991).

Sincerely,

A. Michael Kaplan

A. Michael Kaplan, Ph.D.
Director - Regulatory Affairs

8EHQ-01-14913

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