

BASF Corporation

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Attention: 8(e) Coordinator
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Ladies and Gentlemen:

Subject: Notice in accordance with Section 8(e): Results of an *in vitro* chromosome aberration assay in V79 cells and an *in vivo* mouse micronucleus test with 2,6-Octadienenitrile, 3,7-dimethyl- (CASRN: 5146-66-7)

BASF Corporation is submitting results of an *in vitro* chromosome aberration assay in V79 cells and an *in vivo* mouse micronucleus test with 2,6-Octadienenitrile, 3,7-dimethyl- (CASRN: 5146-66-7) conducted by BASF Aktiengesellschaft, Ludwigshafen, Germany.

The *in vitro* chromosome aberration test was carried out in accordance with the EC Directive 2000/32, B.10 (May 19, 2000) and OECD No. 473 Guidelines. The test substance was tested for its clastogenic potential in the *in vitro* chromosome aberration test in V79 cells. Exposure duration was 4 hours and cells were sampled after 18 hours, both with and without metabolic activation. The *in vivo* mouse micronucleus test was carried out in accordance with the EC Directive 2000/32, B.12 (May 19, 2000) and OECD No. 474 Guidelines. The test substance was tested for its clastogenic (small micronuclei) and aneugenic (large micronuclei) potential in the micronucleus test using male NMRI mice. The animals were sacrificed 24 hours (all doses) or 48 hours (top dose only) after a single oral administration.

Summary of Results:

***In vitro* cytogenetics:** The test substance caused a clear, statistically significant and dose-dependent increase in the number of structurally aberrant metaphases after metabolic activation over a dose range of 250 µg/ml – 1,000 µg/ml.

***In vivo* mouse micronucleus test:** A dose-dependent and statistically significant increase in polychromatic erythrocytes containing small micronuclei (clastogenic activity) was observed at 625 mg/kg (24 hours) and 1,250 mg/kg body weight (24 and 48 hours).

Although the findings are not considered to present a substantial risk to human health or the environment, BASF Corporation understands that reporting of results from this study under TSCA 8(e) is in accordance with EPA's policy.

Very truly yours,

BASF CORPORATION

Edward J. Kerfoot

Edward J. Kerfoot, Ph.D.

Director, Toxicology and Product Regulations



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