

BASF Corporation

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February 19, 1999



8EHQ-99-14389

Document Processing Center (TS-790)  
Attention: (8e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, DC 20460



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Ladies and Gentlemen:

Subject: Notice in Accordance to TSCA Section 8(e) - Preliminary results of an acute inhalation study in rats with BIS-(3-aminopropyl)-methylamine (CAS No. 105-83-9).

BASF Corporation is submitting preliminary results of an acute inhalation study in rats (aerosol exposure) with BIS-(3-aminopropyl)-methylamine (CAS No. 105-83-9), conducted by BASF Aktiengesellschaft, Ludwigshafen, Germany.

Twelve rats survived an eight-hour exposure period to a vapor atmosphere saturated at room temperature, without exhibiting clinical symptoms or gross pathological findings.

Single 4-hour exposures of male and female Sprague-Dawley rats to liquid aerosols of 0.035, 0.05, 0.085 and 0.12 mg/l (particle size distributions not determined) caused the following mortality incidences:

Concentration (mg/l)	Mortality male rats	Mortality female rats
0.035	0/10	0/10
0.05	7/20	3/20
0.085	2/10	5/10
0.12	10/10	10/10

The LC<sub>(50)</sub> for male and female animals was calculated to be 0.07 mg/l.

Body weight development of the female animals exposed to the low concentration was not influenced. Body weight development in the surviving animals of the other groups was depressed in the first post exposure week in a concentration dependent manner, but recovered in the second week.

Symptoms of exposure observed were clear to reddish eye and nasal discharge, changed breathing pattern, respiratory sounds, reduced movements and squatting posture, staggering and high stepping gait, and ruffled fur. During necropsy the animals that died showed dilation of auricles, acute general congestion, hyperemia, edema and emphysema of the lungs as well as lobular pattern in the liver. Partly carnified lungs were noted in some surviving animals examined at the end of the study.

The results described above are in line with those given in an earlier submission of Union Carbide for Bis-(3-aminopropyl)-methylamine (CAS No. 105-83-9, cover letter dated July 28, 1992; Document Control Number 88-920004563). This study reported no mortality of rats after exposure to saturated vapors but 100% lethality at aerosol concentrations of 2 mg/l.

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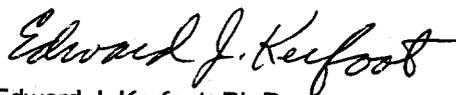
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Although the findings are not considered to present a substantial risk to the health or the environment, BASF Corporation understands that the reporting of these results is in accordance with EPA's policy. Any reports or additional information that we receive will be forwarded to the Agency and Material Safety Data Sheets will be updated with this preliminary information.

If you have any questions, please feel free to call me at (734) 324-6207.

Very Truly Yours,

BASF Corporation



Edward J. Kerfoot, Ph.D.  
Director, Toxicology and Product Regulations

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