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Attention: 8(e) 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 with Section 8(e) -
Results of the study on the acute toxicity of Ethyl Violet Base, CAS No. 596-49-6, on fish; LC_{50} study on the rainbow trout (Oncorhynchus mykiss WALBAUM 1792).

BASF Corporation is submitting results of an acute static LC_{50} study with Ethyl Violet Base on the rainbow trout conducted by BASF Aktiengesellschaft, Ludwigshafen, Germany.

The determination of the acute toxicity on the rainbow trout was performed following the OECD 203 Guideline (adopted April 4, 1984, considering the updated version, adopted July 1992), using a static system. This guideline also covers the requirements of the EEC Directive 84/449, C.1: "Acute toxicity for fish" including the updated version of Nov. 1989 (Doc. 89/896/IX).

Ten fish per concentration or control were used, the study duration was about 96 hours. The test temperature was about 11 ± 1 °C; the water hardness was about 2.5 mol/l.

Since the test compound was practically insoluble in water, Tween 80 was used (100 mg/l test water) for dispersing the test compound in the aquaria.

The following results were obtained:

The exposure to nominal ethyl violet base concentrations of 0, 2.15, 4.64, 10.0, 21.5, 46.4 and 100 µg/l resulted in:

LC_{50}	(96 hours) = 31.6 µg/l
NOEC	(96 hours) = 10 µg/l
"LC_0"	(96 hours) = 10 µg/l
"LC_{100}"	(96 hours) = 100 µg/l

The LC_{50} (96 hours) based on analytically determined concentrations was not calculated. The analytically detected concentrations (mean of 1 and 96 hours values) were in the range of 63 - 94% of the nominal values.

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Toxic symptoms were observed from the nominal concentration of 21.5 µg/l upward.

These values indicate that ethyl violet base exerts relatively high acute toxicity for fish. It is anticipated that the potential for exposure to this product may be low due to high sludge adsorption and substantivity characteristics exhibited by similar products. This information will be provided to customers via updated Material Safety Data Sheets.

Please note that this submission does not contain confidential business information. If you have any further questions, please do not hesitate to contact me at (313) 246-6207.

Very truly yours,

BASF CORPORATION

Edward Kerfoot

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

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