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		TSCA Section	8E
Submitting Organization	BASF CORP		
Contractor	BASF AKTIENGESELLSCHAFT		
Document Title	INITIAL SUBMISSION: LETTER FROM BASF CORP TO USEPA REPORTING SUBLETHAL EFFECTS ON THE RAINBOW TROUT IN A FLOW-THROUGH SYSTEM W/FASTUSOL C YELLOW PR 8511 L, DATED 8/6/1999		
Chemical Category	FASTUSOL C YELLOW PR 8511 L		

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**INITIAL
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MISSION**

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

Ladies and Gentlemen:

Subject: Notice in Accordance to TSCA Section 8(e) – Preliminary results of the sublethal effects on the rainbow trout in a flow-through system with Fastusol C Yellow PR 8511 L. (CAS No. 118208-02-9).

BASF Corporation is submitting preliminary results of the sublethal toxic effects on the rainbow trout (*Oncorhynchus mykiss* WALBAUM 1792) in a flow-through system (28 days), with Fastusol C Yellow PR 8511 L. (CAS No. 118208-02-9), conducted by BASF Aktiengesellschaft, Ludwigshafen, Germany.

The determination of the toxicity on the rainbow trout was performed following in general the OECD Guideline 204 "Fish, prolonged toxicity test: 14-day study", adopted April 4, 1984 and the draft OECD Guideline 215 "Proposal for: Fish, juvenile growth test – 28 days", June 1998. The study was conducted in a flow-through system.

20 fish per test group or control were exposed to the nominal concentrations 0 (control), 0.1, 0.316, 1.0, 2.15, 4.64 and 10 mg/l over 28 days. The test temperature was 14-15 °C, the pH ranged from 7.9 to 8.4, the dissolved oxygen content was roughly 60-100% of maximum saturation and the water hardness was 2.3-2.4 mol/L.

The test compound is soluble in the test water in the range of the selected concentrations but is rapidly hydrolyzed independent of the pH value. The analytically determined concentration values in the concentrations relevant for the determination of effect concentrations (<1 mg/l) were therefore above the detection limit but below the limit of quantitation (limit of quantitation = 0.03 – 0.3 mg/l).

The following results were obtained based on nominal concentrations:

- Mortality: effect threshold = 0.1 mg/l (5% mortality)
NOEC ≤ 0.1 mg/l
LOEC = 0.316 mg/l
- Growth (body weight & length): NOEC = 0.1 mg/l
LOEC = 0.316 mg/l
- Toxic signs (symptoms): NOEC = 0.1 mg/l
LOEC = 0.316 mg/l (reduced food uptake)

These values indicated that Fastusol C Yellow PR 8511 L exerts relatively high toxicity in fish after prolonged exposure.

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

Very Truly Yours,

BASF Corporation

Edward J. Kerfoot

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

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