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Document Title		INITIAL SUBMISSION: LETTER FROM [ ] TO USEPA REPORTING RESULTS OF ACUTE STUDIES WITH A METHOMYL R&D PROPRIETARY MIXTURE, DATED 8/3/1999 (SANITIZED)	
Chemical Category		METHOMYL	

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August 3, 1999

Via Federal Express

Document Processing Center (7407)  
Attention: 8(e) Coordinator  
Office of Pollution Prevention and Toxics  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460-0001

MR 25078

Dear 8(e) Coordinator:

Methomyl  
CAS # 16752-77-5

This letter is to inform you of the results of 2 recently conducted acute studies, an acute oral toxicity study (LD<sub>50</sub>) in rats and an eye irritation study in rabbits, with R&D proprietary mixture containing the above referenced substance.

For the oral toxicity study, the test substance was mixed with deionized water and administered to 4 groups of 5 male rats and 4 groups of 5 female rats at dosages of 15, 30, 75, and 150 mg/kg. The rats were observed for clinical signs of toxicity on the day of dosing and over a 14-day observation period. All rats that were found dead or sacrificed by design at the end of the observation period were given a gross pathological examination.

Mortality occurred in 0/5, 0/5, 0/5, and 3/5 male rats dosed at 15, 30, 75, and 150 mg/kg, respectively, and in 0/5, 0/5, 0/5, and 5/5 female rats dosed at 15, 30, 75, and 150 mg/kg, respectively. All deaths occurred on the day of dosing. The oral LD<sub>50</sub> for male and female rats combined was 132 mg/kg.

No clinical signs of toxicity were observed in male rats dosed at 15, 30, or 150 mg/kg or in female rats dosed at 15 mg/kg. Clinical signs observed included salivation, staining of various body parts, tremors, fasciculations, alopecia, and wet chin. With the exception of alopecia and staining, all clinical signs were observed on the day of dosing.

For the eye irritation test, an aliquot of 0.1 mL of the test substance was instilled into the eye of 6 albino rabbits. The rabbits were examined for eye irritation and clinical signs of toxicity approximately 1, 24, 48, and 72 hours and 7 and 14 days after treatment. One rabbit was further evaluated 21 days after treatment.

All rabbits exhibited salivation, pupillary constriction of the treated eye, and incoordination by 10 minutes after dosing. Pupillary constriction of the treated eye was also observed 4 hours after dosing. No clinical signs were observed by the day after dosing. At study termination (21 days after treatment), corneal opacity (score of 2) was still present in the treated eye of 1/6 rabbits.

Under these experimental conditions, the findings described above appear to be reportable, based upon EPA guidance regarding the reportability of such data under TSCA Section 8(e) criteria.

Sincerely,

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