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Submitting Organization		CONFIDENTIAL			
Contractor					
Document Title		INITIAL SUBMISSION: LETTER FROM [] TO USEPA REPORTING RESULTS OF AN ACUTE ORAL TOXICITY STUDY IN RATS & DERMAL IRRITATION STUDY IN RABBITS W/[], METHOMYL, DATED 110299 (SANITIZED)			
Chemical Category		METHOMYL (CONFIDENTIAL)			

**INITIAL
SUB-
MISSION**

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November 2, 1999

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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

9728267

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 (LD₅₀) in rats and an eye irritation study in rabbits, with an 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 3 groups of 5 male rats and 3 groups of 5 female rats at doses of 50, 100, or 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 1/10, 7/10, and 9/10 male and female rats dosed at 50, 100, and 150 mg/kg, respectively. All deaths occurred on the day of dosing. The oral LD₅₀ for male and female rats combined was 84 mg/kg.

Abnormal gait or mobility, tremors, salivation, lethargy, or muscle fasciculations were observed in surviving male rats at all doses and in surviving female rats dosed at 50 or 100 mg/kg. No clinical signs were observed after test day 2.

For the eye irritation test, the weight equivalent 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 days after treatment. Two rabbits were further evaluated 14 days after treatment.

All rabbits exhibited pupillary constriction of the treated eye and incoordination after dosing. Tremors were observed in 3 rabbits, salivation was observed in 2 rabbits, rapid breathing and abnormal posture were observed in 1 rabbit, and excessive grooming was observed in 1 rabbit. No clinical signs were observed by the day after dosing.

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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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