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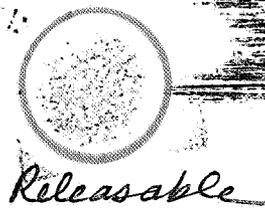
2,4-D/TOX

DATE: September 27, 1979

SUBJECT: Data to Add to Files, EPA File No. 876-203, 2,4-D + Dicamba Weedmaster DMA

FROM: John Doherty (10/1/79) Toxicology Branch/HED (TS-769) *Boyd/19* *W/S/10.2.79* Caswell #295 & 315

TO: Robert Taylor Product Manager #25, Registration Div., (TS-767)



Conclusion:

The studies were reviewed and found to be Core Guidelines.

Products containing Dicamba may have to have precautionary statements warning for possible allergic reactions in some individuals.

The labelling (not submitted) should conform to Toxicity Category IV.

Summary Table
Acute Toxicity Studies with Weedmaster-DMA

1. Acute Oral LD50-rats	>5000 mg/kg	IV	MINIMUM
2. Acute Dermal LD50-rabbits	>20,000 mg/kg	IV	MINIMUM
3. Acute Inhalation LC50-rats	>20.3 mg/Li	IV	MINIMUM
4. Primary Eye Irritation-rabbits	Not irritating	IV	GUIDELINES
5. Primary Skin Irritation-rabbits	Not irritating	IV	GUIDELINES

All tests by International Research and Development Corporation; June 22, 1978 and inhalation July 26, 1978 (inhalation).

Review of Studies --Weedmaster-DMA

1. Acute Oral Toxicity Study in Rats

A single dose of 5000 mg/kg of test material (Weedmaster-DMA) was given by gavage to a group of 5 male and 5 female rats. Observations were made for 14 days.

None of the rats died, hypoactivity and ataxia resulted, weight gain was not affected and autopsy was not unusual.

Core-MINIMUM , LD50 >5000.

2. Acute Dermal Toxicity in the Albino Rabbit

A single dose of 20,000 mg/kg was applied to the prepared backs (clipped and abraded) rabbits. No rabbits died, weight gain was not affected and autopsy was not remarkable.

MINIMUM (Data on skin irritation was presented).

3. Acute Inhalation Toxicity Study in Rats.

A single group of 5 male and 5 female Charles River rats were exposed for 4 hours to an atmospheric concentration of 20.3 mg/Li. The atmosphere was generated by metering the liquid, using an FMI lab pump.

Results: None of the rats died. Toxic signs included fast breathing, slight dyspnea which persisted in some rats for 2-3 days. Gross necropsy revealed gray patches in 2 rats, but no other lesions in the other rats. The particle size was determined to be 3.2 microns (respirable) as determined by an Andersen sampler.

Core MINIMUM

4. Primary Eye Irritation Study in the Albino Rabbit

5 male and 5 female New Zealand rabbits were instilled with 0.1 ml of test material. 3 rabbits were washed out 30 seconds after instillation. No corneal opacity developed. Transient irritation only. Toxicity Category IV

Core Guidelines.

5. Primary Skin Irritation Study in the Albino Rabbit

3 male and 3 female New Zealand rabbits were prepared (clipping and abrading) and 0.5 milliliters of test material were applied to their backs and kept in place for 24 hours. No serious skin irritation developed. Draize Score was 0.2. Toxicity Category IV

Core Guidelines

OPP:OTS:HED:TOX:RD EBUDD:sb: 9/27/79 X73713

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