

US EPA ARCHIVE DOCUMENT

2,4-D/TOX (19)  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: January 26, 1978

SUBJECT: 2,4-D butyl ester technical (2,4-D butyl ester) EPA Registration Number #400-RGG  
Caswell 10315

FROM: William Dystra, Ph.D.  
Toxicology Branch

TO: Richard Mountfort (23)

Action Type: Amendment with DATA

Product Manager: Richard Mountfort (23)

Recommendations:

1. The Acute oral toxicity study is acceptable as core minimum data and supports the registration.
2. 2,4-D is an RPAR Chemical.

\*No RPAR criteria have been exceeded in this study.

Review:

1. Acute Oral LD<sub>50</sub> in Rats (Product Safety Labs., Report#T-243, 8/25/77; submitted by Uniroyal Chemical, 9/6/77)

Test Material: A dark brown liquid identified as 2,4-D mixed butyl ester D-10497, BL8644

Five groups of 5 male and 5 female Sprague-Dawley rats, 200-300 gms., were fasted for 18 hours and then individually and singly dosed by gavage. Doses were 0.5, 0.6, 0.7, 0.8 and 0.9 ml/kg of test material. The animals were observed for mortality and other signs of gross toxicity for 14 days. Food and water were provided ad libitum.

Results: Oral LD<sub>50</sub> (male rats) = 0.67 ml/kg (830 mg/kg)

Oral LD<sub>50</sub> (female rats) = 0.35 ml/kg (434 mg/kg)

Toxic Signs: not reported

Necropsy: not reported

Classification: Core-Minimum DATA

TOX Category: II WARNING

Typist: TH

S. E. W. 3/13/78