

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY  
DEPARTMENT OF PESTICIDE REGULATION  
MEDICAL TOXICOLOGY BRANCH

SUMMARY OF TOXICOLOGY DATA  
PROPIONIC ACID

Chemical Code # 000505, Tolerance # 50666  
SB 950 # 830  
Original date: March 13, 2001

I. DATA GAP STATUS

Chronic toxicity, rat:	Data gap, no study on file.
Chronic toxicity, dog:	Data gap, no study on file.
Oncogenicity, rat:	Data gap, no study on file.
Oncogenicity, mouse:	Data gap, no study on file.
Reproduction, rat:	Data gap, no study on file.
Teratology, rat:	Data gap, no study on file.
Teratology, rabbit:	Data gap, no study on file.
Teratology, mouse:	Data gap, no study on file.
Gene mutation:	Data gap, inadequate study, no adverse effect indicated
Chromosome effects:	Data gap, no study on file.
DNA damage:	Data gap, no study on file..
Neurotoxicity:	Not required at this time.

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Toxicology one-liners are attached.

All record numbers through 037841 were examined.

\*\* indicates an acceptable study.

**Bold face** indicates a possible adverse effect.

File name: T010313

Revised by: [REDACTED] and [REDACTED], 3/13/01

## II. TOXICOLOGY ONE-LINERS AND CONCLUSIONS

These pages contain summaries only. Individual worksheets may contain additional effects.

## COMBINED, RAT

No study submitted.

## CHRONIC TOXICITY, RAT

No study submitted

## CHRONIC TOXICITY, DOG

No study submitted

## ONCOGENICITY, RAT

No study submitted

## ONCOGENICITY, MOUSE

No study submitted

## REPRODUCTION, RAT

No study submitted

## TERATOLOGY, RAT

No study submitted

## TERATOLOGY, RABBIT

No study submitted

## GENE MUTATION

001 037841 Brusick, D. J. " Mutagenicity Evaluation of Propionic Acid F.C.C. FDA 75-62, Final Report." (Litton Bionetics, Inc., , LBI Project No. 2672, October 29, 1976.) Propionic Acid, purity not stated, was evaluated for mutagenicity at concentrations of 0.02375, 0.0475, and 0.0950 % with *Salmonella typhimurium* strains TA 98, TA 100, TA 1535, TA 1537, and TA 1538; and at concentrations of 0.625, 1.25, and 2.50 % with *Saccharomyces cerevisiae* strain D4 with and without metabolic activation (mice, rat and monkey tissues). Both a plate incorporation and a

suspension assay were conducted. The results with plate incorporation were negative. The results of the suspension assays were difficult to interpret. UNACCEPTABLE (data legibility problems, duplicate plates only, no purity). ( [REDACTED] and [REDACTED], 3/13/01)

#### CHROMOSOME EFFECTS

No study submitted

#### DNA DAMAGE

No study submitted

#### NEUROTOXICITY

Not required at this time