

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: Kishiyama and Gee, 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). (Kishiyama and Gee, 3/13/01)

#### CHROMOSOME EFFECTS

No study submitted

#### DNA DAMAGE

No study submitted

#### NEUROTOXICITY

Not required at this time