

US EPA ARCHIVE DOCUMENT

Tox. Chem. No. 589 - NAA

*7-2-85*  
*9-6-85*

Acceptable Daily Intake -  
EPA/ OPP / HED / Tox.

Material : NAA (Naphthalene acetic Acid)

Doc. No. for Updated ADI

004579

PLD  
~~ADI or PADL~~ 0.05 mg/kg/day (rat)

Safety Factor = 1000

Dated : 12/13/83

Updated : 7/24/85

Study : Teratology (rat)

NOEL : 50 mg/kg (maternal NOEL)

Lab. : Huntington Res. Ctr.

Study No. : R42K6-46K-350

Study Date : 1/14/77

Doc. No. : 004110

**BEST AVAILABLE COPY**

Comments:

Studies considered were a 90-day <sup>feeding</sup> rat and a rat teratology study. Extensive data gaps exist for this chemical.

Only acute studies are listed in Caswell file 589AA for the ethyl ester of naphthalene acetic acid; also there are no subchronic or chronic data in the Registration Standard (8/81).

*OK ed by 9/6/85*  
*P. S. Bury*  
*Ph. B. Bury*  
*R. Bowen*  
*C. Fried*  
*S. Saunders*  
*Wm. Z. Burman*

*AD 9/15/85 Section Head*

Look at <sup>ethyl</sup> ester of NAA to determine

note: there's no data 1

Naphthaleneacetic acid (NAA): PQD<sub>1</sub> from a  
Rat Teratology Study

As of 7/24/85, an ADI for NAA (~~CFR 180.443~~<sup>155</sup>)  
could not be located. In an effort to support the  
published tolerances, a PQD<sub>1</sub> was established  
from the available toxicity data reviews  
conducted by the ~~20x~~ Branch. Since data  
gaps existed for teratology (rabbit), reproduc-  
tion, and chronic feeding (rat and dog) studies,  
a rat teratology study and a 90-day rat feeding<sup>\*\*</sup>  
study were considered in establishing a PQD<sub>1</sub>.  
The teratology study was chosen because it  
is a chronic study and more sensitive.

\* \* NOEL = 150 mg/kg (3000 ppm); ADI = 1.5 mg/kg

# Naphthaleneacetic Acid - 589

Data Considered for Establishing an ADI,  
PAD I, or PLD

1. Teratology - rat (maternal NOEL = 50 mg/kg or 1000 ppm)
2. 90-Day Feeding - rat (NOEL = 150 mg/kg or 3000 ppm)

## Data Gap

1. Chronic Feeding - rat
2. Chronic Feeding - dog
3. Teratology - rabbit
4. Reproduction - rat

## Other Considerations

1. 19-Month Proliferative Activity Study (negative oncogen, Biometrics Res. Labs.; see p. 34 of Registration Std.)
- \* \* 2. Ethyl Ester:
  - a. No data in Registration Std. (8/81)

\* \* Ethyl ester or NAA

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Tox Chem No. - 589 - NAA

File Last Updated

Current Date

EPA

Accession

No.

Material

Study/Lab/Study #/Date

Acceptable Daily Intake-  
EPA/OPP/HED/Tox.

NAA

Results:

LD50, LC50, PIS, NOEL, LEL

TOX

Category

CORE Grade/

Doc. No.

PLD: 0.05 mg/kg/day (rat)

Safety Factor: 1000

Dated: 12/13/83

Updated: 7/24/85

Study: Teratology (rat)

NOEL: 50 mg/kg (maternal NOEL)

Lab: Huntingdon Res. Ctr.

Study No.: R42K6-46K-350

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004579

file last updated 9/18/85

ACCEPTABLE DAILY INTAKE DATA

RAT, Older	NOEL	S.F.	<del>PLD</del> mg/kg/day	<del>PLD</del> mg/day/50kg
50.000	1000.00	1000	0.500	3.0000

Published Tolerances

CROP	Tolerance	Food Factor	mg/day/1.5kg
Apples( 2)	1.000	2.53	0.03795
Pears(116)	1.000	0.26	0.00383
Quinces(132)	1.000	0.03	0.00045
Olives(104)	0.100	0.06	0.00009
Pineapple(123)	0.050	0.30	0.00022

HPI ~~PLD~~  
3.0000 mg/day/60kg \* 0.0425 mg/day/1.5kg 1.42  
~~ADI~~

\*\*\*\*\*

Unpublished, Tox Approved 7E1956

CROP	Tolerance	Food Factor	mg/day/1.5kg
Oranges(108)	0.100	2.17	0.00325
Tangerines(160)	0.100	0.03	0.00005

HPI ~~PLD~~  
3.0000 mg/day/60kg \* 0.0458 mg/day/1.5kg 1.53  
~~ADI~~

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Current Action 2E2760

CROP	Tolerance	Food Factor	mg/day/1.5kg
Cherries( 30)	0.100	0.10	0.00015

HPI ~~PLD~~  
3.0000 mg/day/60kg \* 0.0460 mg/day/1.5kg 1.53  
~~ADI~~

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