

Tox. Chem. No. 589 - NAA

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

Material : NAA (Naphthalene acetic Acid).

Doc. No. for Updated ADI

004579

PLD
ADI or PADI 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

Study Date : 1/14/77

Doc. No. : 004110

Comments:

Studies considered were a 90-day ^{feeding} 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).

Look at ^{ethyl} ester of NAA to determine

note: there's no data 1

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OK ed by 9/6/85

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Naphthaleneacetic Acid (NAA): PQD₁ from a
Rat Teratology Study

As of 7/24/85, an ADI for NAA (CFR 185.155) could not be located. In an effort to support the published tolerances, a PQD₁ was established from the available toxicity data reviews conducted by the ~~20x~~ Branch. Since data gaps existed for teratology (rabbit), reproduction, and chronic feeding (rat and dog) studies, a rat teratology study and a 90-day rat feeding** study were considered in establishing a PQD₁. 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 Prolonged Toxicity Study (negative oncogen, Bionetics Res. Labs.; see p. 34 of Registration Std.)

* * 2. Ethyl Ester:

- a. No data in Registration Std. (8/81)

* * Ethyl ester or NAA

EPA

Accession

No.

Material

Study/Lab/Study #/Date

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

Results:

LD50, LC50, PIS, NOEL, LEL

TOX

Category

CORE Grade/

Doc. No.

004579

PLD: 0.05 mg/kg/day (rat)

Safety Factor: 1000

Dated: 12/13/83

Updated: 7/24/85

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File last updated 9/18/85

ACCEPTABLE DAILY INTAKE DATA

RAT, Older NOEL	S.F.	PLD ADI	PLD ADI
mg/kg	ppm	mg/kg/day	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	TRC	PLD ADI
3.0000 mg/day/60kg	0.0425 mg/day/1.5kg	1.42

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	TRC	PLD ADI
3.0000 mg/day/60kg	0.0458 mg/day/1.5kg	1.53

Current Action 2E2760

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

HPI	TRC	PLD ADI
3.0000 mg/day/60kg	0.0460 mg/day/1.5kg	1.53
