CASE GS0023 NAPTHALENE ACETIC ACID PM 1=0 11/23/79

CHEM 050002 1-Naphthaleneacetic acid

BRANCH EEB DISC 20 TOPIC 201010010

FORMULATION 00 = ACTIVE INGREDIENT

FICHE/MASTER ID 05007255 CONTENT CAT 01

Hilton, H.W.; Nomura, N. (1964) Phytotoxicity of herbicides as measured by root absorption. Weed Research 4(3):215-222.

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS
SEC: EEB =20=201024000 EEB =20=201024007

DIRECT RVW TIME = 05 (MH) START-DATE 23 OCT 1980 END DATE 23 OCT 1980

REVIEWED BY: Robert W. Holst, Ph.D.
TITLE: Plant Physiologist
ORG: Sect. 1, Ecol. Eff. Br. HED OPP
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SIGNATURE: DATE: 23 OCT 1980

~~APPROVED BY: Robert W. Holst, Ph.D.~~
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~~ORG: Sect. 1, Ecol. Eff. Br. HED OPP~~
~~LOC/TEL: Rm 807 CM2 557-0320~~

SIGNATURE: DATE:

05007255

Chemical:	1-Naphthaleneacetic acid
Citation:	Hilton, H. W.; Nomura, N. (1964) Phytotoxicity of herbicides as measured by root absorption. Weed Research 4(3):216-222.
Reviewer:	Robert W. Holst, Ph.D., Plant Physiologist Ecological Effects Branch/Hazard Evaluation Division
Validation Date:	10/23/80
Test Title:	Cucumber - young seedling - liquid media lethality study
Conclusion:	The minimum lethal concentration for NAA was 98 ppb.
Validation:	This study is scientifically sound.

Materials & Methods: Cucumber seeds were soaked and then planted in cotton plugs in flasks that contained Hoagland-Arnon nutrient solution. The chemical was added with fresh media when the first tree leaf appeared. The extent of effect was measured after 11 days. Environmental conditions were: 300 ft-candles from daylight fluorescent for 12 hrs.; temperature 32-34C.

Results: Only the minimum lethal concentration was determined for cucummber seedlings. this was 5.25×10^{-6} molar (98.0 ppb).