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Item ID Number 04830 Not Scanned

Author

Corporate Author

Report/Article Title Notes: WSSA [Weed Science Society of America]
Group Discussion on Arsenical Herbicides, February
10, 1972, St. Louis, Missouri

Journal/Book Title

Year 1972

Month/Day February

Color

Number of Images 9

Description Notes Handwritten notes. 1972 Program Weed Science Society of
America Twelfth Meeting brochure included.

WSSA GROUP DISCUSSION ON ARSENICAL HERBICIDES

Attendance

10 FEB 1972
ST LOUIS, MISSOURI

Herbert Raab

The Ansel Co

224 S. Callish Apt H
Fresno, Calif 93721

EA WOODSON PE KEARNEY JT HOLSTON
Plant Service Research Division
Plant Industry Station
Beltsville, Maryland 20705

C. R. SWANSON

SOUTHERN WEED SCIENCE LABORATORY
STONEVILLE, MISS 38776

CAPT ALVIN L. YOUNG

USAF/DFLS

USAF Academy

COLORADO 80840

Franklin Wedge

The Ansel Co.

3385 AIRWAYS BLVD.

MEMPHIS TENN 38116

ART LANGE

9240 S. Riverbend
Parlier 93648 Calif

1. Review current studies
on arsenicals.

2. Need for:

A. New methodology for
determinations of
arsenic

B. Techniques to
differentiate forms
of arsenic

C. Bioassay data &
a list (composite of
susceptible & resistant species).

Jerry H Collins + Philip J. Ehman
The Ansel Company
Research Center
PO Box 4325
Madison, WI 53711

FRANK ANASTASIA
INDUSTRIAL CHEM. DIVISION
IVORYDALE TECH. CTR.
THE PROCTER & GAMBLE CO.
CINCINNATI, OHIO 45217

CAPT. J. H. HUNTER
USAF ARMAMENT LAB (17LIP)
Eglin AFB, FLA 32545

Clyde L. Elmore
Botany Dept.
University of Calif.
Davis, Calif. 95616

MIKE NEWTON]

From the notes applied (HUNTER), it was obvious that TAC-52 A offered a unique opportunity to study persistence and soil leaching

C.P. Swanson
How Broadway?
College Park

* 10-200
16 a/A

5 PM AS

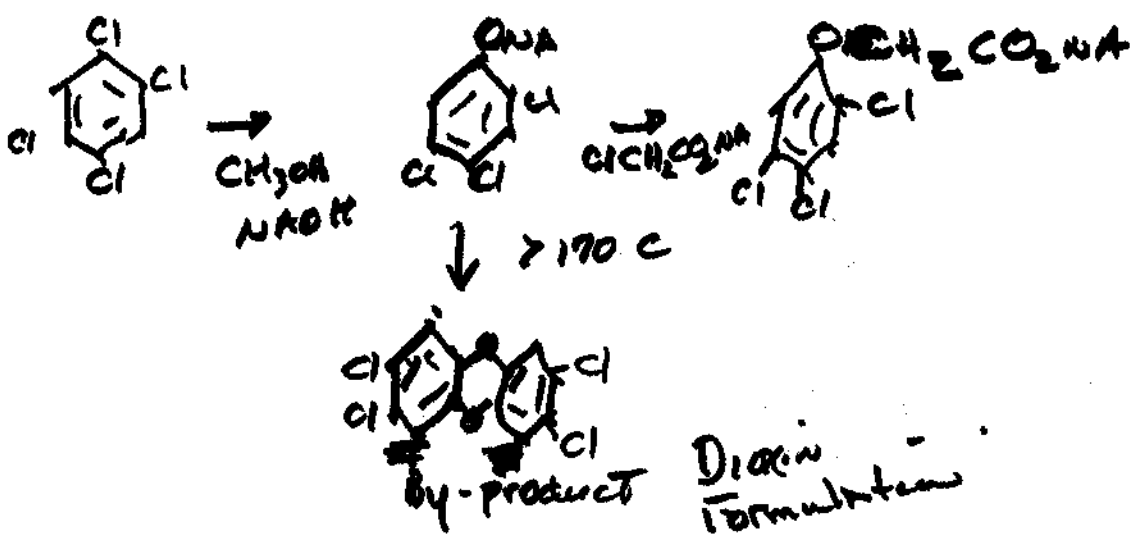
CA DISPOSAL

- KRAMER - Phil
- Young - A.L.
- SWANSON - USDA
- HOLSTUN - USDA - HOLSTUN
- WEDGE - ANSUL
- LANG - CAL
- ANASTASIA - REG
- COLLINS - ANSUL
- WOOLSON - USDA
- HUNTER - CAL - DAVIS
- ELMORE - CAL - DAVIS

C.K. Swanson
Southern Weed Science Lab
Stoneville, Miss 38776

TIME OF DAY PUBLICATION
ANNUAL BLOSSAY
Chamber Contamination
SOIL-FIXATION?

DIOXIN PAPER



Species Difference

$LD_{50} =$ ~~6~~ $6 \mu\text{g}/\text{kg}$ Guinea Pig
 $\sigma^7 \text{ RAT} = 44 \mu\text{g}/\text{kg}$
 $\text{dog} = 30-300 \mu\text{g}/\text{kg}$

Hydropericardium Factor in chicken (isolated from fats)

1,2,3,7,8,9 - hexachlorodibenzo-p-dioxin

Toxicity of TCDD

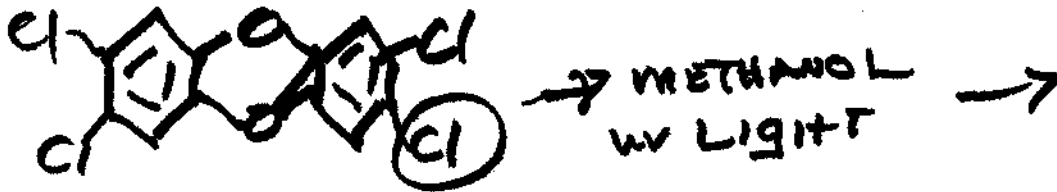
Environmental Aspects

	Samples analysed	Concentration Ranges			
	78	<0.1	1-10	1-10	>10 ppm
Phenoxyl	53	5	9	12	

42 samples 2,4,5-7

2,4,5-T 20/01/4 1.0 ppm -

Dioxin photolysis



2,4-D UPTAKE

BASIS - TEMPERATURE INFLUENCED UPTAKE

2,4-D TOXICITY

Bluegills - LD50

Dimethylamine

20 ppm

Formulation

40 ppm

Pure Cpd.

} Role of formulation

Butyl ester

3 ppm Formulation

Pure "

1 ppm

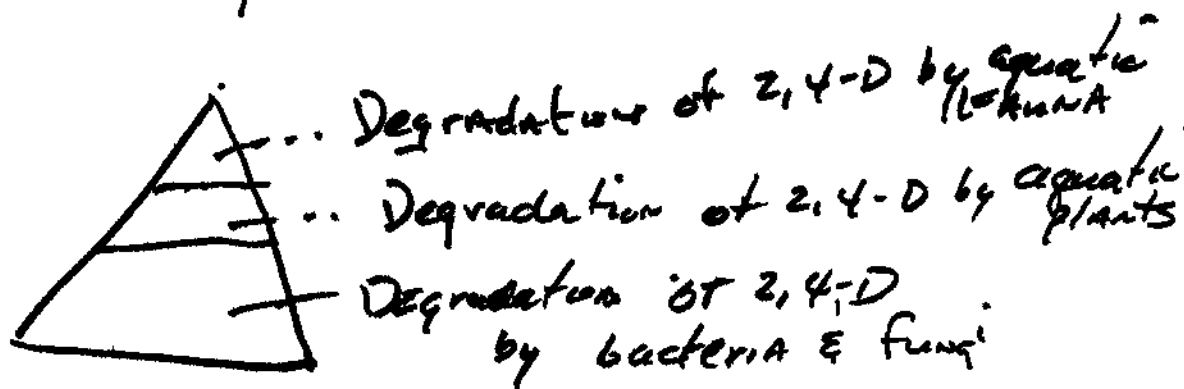
* FRY NO MORE SUSCEPTIBLE THAN MATURE RISH

ABSTRACT #26

* NOT DIRECT TOXICITY OF BUTYL ESTER TO CRUSTACEANS OR ROTIFERS

13/10/10 400 gft

FRANKS



SETTLING OUT EFFECT OF SILURAS

4 HRS
72

15 mg/cm²
25 mg/cm

D. Klingman - 24,5-T & weed Scientist -

Press & Effects on Agriculture.

" on Military use of] Humane
herbicides ?? / us

Documents on Classifying Pesticides -

Restricted:
non restricted.

Crop Protection Specialist - broad training
Integrated systems approach to Crop Protection

For our presentations -

Field
observation
vs
toxicology

We drew on the experience
of many men - -- mostly young

20 Carcinogenesis in Natural Foods.

— Bio transformation to ~~the~~ "Activation"
vs "inactivation"

