

US EPA ARCHIVE DOCUMENT

ID 05001991

ENDOSULFAN

11-5-79

1. CHEMICAL: Multiple chemicals. See Table.

2. FORMULATION: Technicals

3. CITATION:

Stevenson, J.H. 1978. // The acute toxicity of unformulated pesticides to worker honey bees (*Apis mellifera* L.). Plant Pathol. 27(1): 38-40  
ID 05001991

4. REVIEWER: Allen W. Vaughan  
Entomologist  
EEB/HED

5. DATE REVIEWED: Nov. 5, 1979

6. TEST TYPE: Acute toxicity to honey bees

A. Test Species: Honey bee (*Apis mellifera*)

7. REPORTED RESULTS: See Table.

8. REVIEWER'S CONCLUSIONS:

This study is scientifically sound.

SEE DIAL FOR FILE  
FOR COMPLETE  
DATA EVALUATION  
RECORD

*DMW*

TABLE

Acute contact and oral toxicities to worker honey bees (*Apis mellifera*) of technical samples of pesticide. n = number of determinations on which estimate is based

Pesticide	Contact		Oral	
	ID <sub>50</sub> (ug per bee)	n	LD <sub>50</sub> (ug per bee)	n
Allethrin	3.4	4	9.1	2
Azinphos-methyl	0.063	2	4.6	3
Benomyl	>10		0-15	3
Bioresmethrin	0.0057	3	>10	
Captan	>10		0.055	1
Carbaryl	1.3	2	--	
Carbophenothion	1.4	2	0.14	2
Chlordane	1.4	3	5.2	2
Chlorfenethol	>50		--	
Chlorfenvinphos	4.1	1	>100	
Chlorpyrifos	0.059	1	0.55	1
Dazomet	>50		0.25	3
DDT	3.9	3	>10	
	38		3.7	5
Decamethrin	0.051	3		
Demephion	0.36	2	0.079	1
Demeton-S-methyl	0.26	3	0.22	2
Demeton-S-methyl sulphone	0.20	2	0.21	4
	{ 9.5	1	0.19	1
Dialifos	{ 28.6	1		
Diazinon	0.22	2	29.2	2
Dicamba	>100		0.20	2
Dichlofluanid	--		>10	
Dicofol	>50		>70	
Dicrotophos	0.076	1	>10	
Dieldrin	0.16	8	0.068	3
Diflubenzuron	>30		0.32	6
Dimethoate	0.12	3	>30	
			0.15	8
			{ 16	2
Disulfoton	4.3	4	{ 39	1
Endosulfan	{ 7.1	4	{ 6.9	3
	{ 1.2	3	{ 1.4	2
Endrin	{ 0.65	2	{ 0.46	2
Ethiofencarb	2.3	2	1.5	1
Ethylmercury chloride	22	2	13	1
Fenazaflor	12.2	2	2.9	1
Fenitrothion	0.018	3	0.019	3
Fonofos	3.3	3	8.4	1