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Table A7.5.1.3/01-5: **Test conditions**

Criteria	Details
Test type	Greenhouse
Method of application	soil incorporation
Application levels	not applicable
Dose rates	not applicable
Substrate characteristics	sandy loam, 1.3% organic carbon (2.2% org. matter)
Watering of the plants	Plants were irrigated using 200 mg/L Peters 20-20-20. Approximately 100 ml was provided to all pots by sub-irrigation twice weekly. All subsequent watering was provided using town well water.
Temperature	18 to 40 °C
Thermoperiod	Not applicable
Light regime	800 to 4500 footcandles and 8600 to 48,000 lux; natural sunlight supplemented with sodium vapor light; 16 hr light and 8 hr dark
Relative humidity	37 to 79%
Wind volatility	Not applicable
Observation periods and duration of test	Observation periods: 7, 14 and 21 days after 50% emergence as determined in the controls, the number of emerged plants, individual shoot length and visual phototoxicity was recorded.
	Duration: 21 days after 50% emergence was observed in the controls, <i>i.e.</i> 25 days
Pest control	Seeds were not pretreated with insecticides or fungicides.
Any other treatments and procedures	not applicable

Table A7.5.1.3/01-6: Effective phytotoxicity after test termination

Test Substance Concentration	Absolute Numbers, Canola				Percent relative to control, Canola			
(nominal) ¹ [mg DCOIT/kg dwt]	Plant height (cm)	Plant dry weight (g)	Percent emergence	Dead plants	Plant height inhibi- tion	Plant dry weights	Percent emergence inhibition	Dead plants
control	22.2	0.4955	80	0/40	68		EE	<u> </u>
solvent control	22.8	0.3854	98	0/40		invo.		D*0
5.0	23.7	0.4413	98	0/40	-5	-14	0	
10	18.6	0.4272	93	0/40	17 *	-11	5	
20	4.8	0.1827	98	0/40	79 *	53 *	0	
40	2.1	0.0563	95	1/40	91 *	85 *	3	2.5
80	0.44	0.0100	80	14/40	98 *	97 *	18	35
Temperature [°C]	18-40 °	18-40 °C over 26 days				•		
Relative humidity	37-79 % over 26 days							

¹ specify, if TS concentrations were nominal or measured * statistically different compared to the solvent control

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Test Substance Concentration	Abs	Absolute Numbers, Red clover				Percent relative to control, Red clover			
(nominal) ¹ [mg DCOIT/kg dwt]	Plant height (cm)	Plant dry weight (g)	Percent emergence	Dead plants	Plant height inhibi- tion	Plant dry weights	Percent emergence inhibition	Dead plants	
control	12.2	0.0848	78	0/40			<u> </u>	22	
solvent control	9.8	0.0563	85	1/40	224	72.2		<u> 1342</u>	
2.5	8.9	0.0518	93	0/40	10	8	-14	7-7	
5.0	9.5	0.0660	93	0/40	4	-17	-14		
10	6.8	0.0396	98	0/40	39 *	30 *	-20		
20	2.1	0.0079	95	0/40	78 *	86 *	-17		
40	0.67	0.0048	83	0/40	93 *	92 *	-2		
80	0.0	0.0000	43	17/40	100+	100 *	48 *	42.5	
Temperature [°C]	18-40°	C over 26	days						
Relative humidity	37-79 %	6 over 26 c	lavs						

Relative humidity 37-79 % over 26 days specify, if TS concentrations were nominal or measured

⁺ excluded from analysis due to emergence effect

Test Substance Concentration		Absolute Numbers, Rice				Percent relative to control, Rice			
(nominal) ¹ [mg DCOIT/kg dwt]	Plant height (cm)	Plant dry weight (g)	Percent emergence	Dead plants	Plant height inhibi- tion	Plant dry weights	Percent emergence inhibition	Dead plants	
control	32.5	0.1309	98	0/40			122		
solvent control	35.1	0.1620	85	0/40			100	2012	
5.0	31.3	0.1763	75	0/40	11 *	-9	12	200	
10	31.0	0.1360	93	0/40	12 *	16	-9	55	
20	18.8	0.0452	95	0/40	44 *	72 *	-12		
40	9.7	0.0113	85	0/40	72 *	93 *	0		
80	7.5	0.0071	85	1/40	79 *	96 *	0	2.5	
Temperature [°C]	18-40 °	C over 26	days				•		

specify, if TS concentrations were nominal or measured

37-79 % over 26 days

Relative humidity

Table A7.5.1.3/01-7: Morphological abnormalities, plant effect and mortalities

Test Substance	<u>ıola</u>					
Concentration	Mo	orphological a		Plant Effect(%)b		
(nominal) ¹ [mg DCOIT/kg dwt]	Necrosis	Chlorosis	Leaf curl	Flowers	Mean	Mortality
control	0	0	0	23	0	0
solvent control	0	0	0	34	0	0
5.0	0	0	0	30	0	0
10	0	1	0	21	2	0
20	1,	38	0	0	10	0
40	36	37	0	0	45	1
80	18	18	18	0	88	14

a Number of plants exhibiting the effect.

^{*} statistically different compared to the solvent control

^{*} statistically different compared to the solvent control

b An effect of 0 indicates a normal plant while an effect of 100 indicates a total plant effect.

c Number of plants that died throughout the test period.

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Test Substance	Red Clover						
Concentration	Mo	orphological a	bnormalities		Plant Effect(%)b		
(nominal) ¹ [mg DCOIT/kg dwt]	Necrosis	Chlorosis	Leaf curl	Flowers	Mean	Mortality	
control	0	0	0	0	0	0	
solvent control	0	0	0	0	3	1	
2.5	0	0	0	0	0	0	
5.0	0	5	0	0	1	0	
10	1	39	0	0	10	0	
20	38	38	0	0	40	0	
40	0	33	0	0	90	0	
80		all plar	nts died		100	17	

- a Number of plants exhibiting the effect.
- b An effect of 0 indicates a normal plant while an effect of 100 indicates a total plant effect.
- c Number of plants that died throughout the test period.

Test Substance Concentration	Rice Morphological abnormalities Plant Effect(%)					
(nominal) ¹ [mg DCOIT/kg dwt]	Necrosis	Chlorosis	Leaf curl	Flowers	Mean	Mortality ^c
control	0	0	0	0	0	0
solvent control	0	0	0	0	0	0
5.0	0	20	0	0	7	0
10	0	37	0	0	10	0
20	11	38	1.	0	26	0
40	31	33	2	0	45	0
80	33	30	1	0	49	1

- a Number of plants exhibiting the effect.
- b An effect of 0 indicates a normal plant while an effect of 100 indicates a total plant effect.
- c Number of plants that died throughout the test period.

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Table A7.5.1.3/01-8: Conclusions

	Percent Emergence (mg DCOIT/kg dwt soil)		Shoot Length (mg DCOIT/kg dwt soil)			oot Dry Wo COIT/kg o			
Species	NOEC	EC ₂₅	EC ₅₀	NOEC	EC ₂₅	EC ₅₀	NOEC	EC ₂₅	EC ₅₀
Canola	80	>80	>80	5.0	13	19	10	14	19
Lower CL		NA	NA		12	18		13	18
Upper CL	24	NA	NA		14	20	222	15	20
Red clover	40	54	74	5.0	8.4	14	5.0	8.7	13
Lower CL		39	65		4.4	12		6.7	12
Upper CL		63	80		11	15	122	10	14
Rice	80	>80	>80	6.1 a	14	23	10	11	16
Lower CL		NA	NA	3.2	13	20		9.0	14
Upper CL		NA	NA	11	15	25		13	17

CL = confidence limit

Table A7.5.1.3/01-9: Validity criteria for terrestrial plant toxicity according to OECD Draft Guideline 208

	fulfilled	Not fullfilled
The seedling emergence is at least 70%;	yes	
The seedlings do not exhibit visible phytotoxic effects (e.g. chlorosis, necrosis, wilting, leaf and stem deformations) and the plants exhibit only normal variation in growth and morphology for that particular species;	yes	
The mean survival of emerged control seedlings is at least 90% for the duration of the study;	yes	
Environmental conditions for a particular species are identical and growing media contain the same amount of soil matrix, support media, or substrate from the same source.	yes	

^a An EC10 was calculated as a conservative estimate of the NOEC.

Rohm and Haas Compai	ıy
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4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)

January 2006

Official

use only

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Section A7.5.1.3/02 Annex Point IIIA XIII 3.4

Terrestrial plant toxicity - vegetative vigor

1 REFERENCE

1.1 Reference Reference Type: test repoprt

Year: 2002

Report date: 25 November 2002

1.2 Data protection

Yes

1.2.1 Data owner

Rohm and Haas Company

1.2.2

1.2.3 Criteria for data

protection

2 GUIDELINES AND QUALITY ASSURANCE

Yes, OECD Draft Guideline 208, Part B and US EPA OPPTS Draft 2.1 Guideline study

Guidelines 850.4150 and 850.4250

2.2 GLP Yes

2.3 Deviations No

3 METHOD

3.1 Test material

DCOIT (RH-287 technical)

3.1.1. Lot/Batch number

3.1.2 Specification

As given in section 2

3.1.3. Purity

99.3%

3.1.4 Composition of

Product

3.1.5 Further relevant

properties

3.1.6 Method of analysis

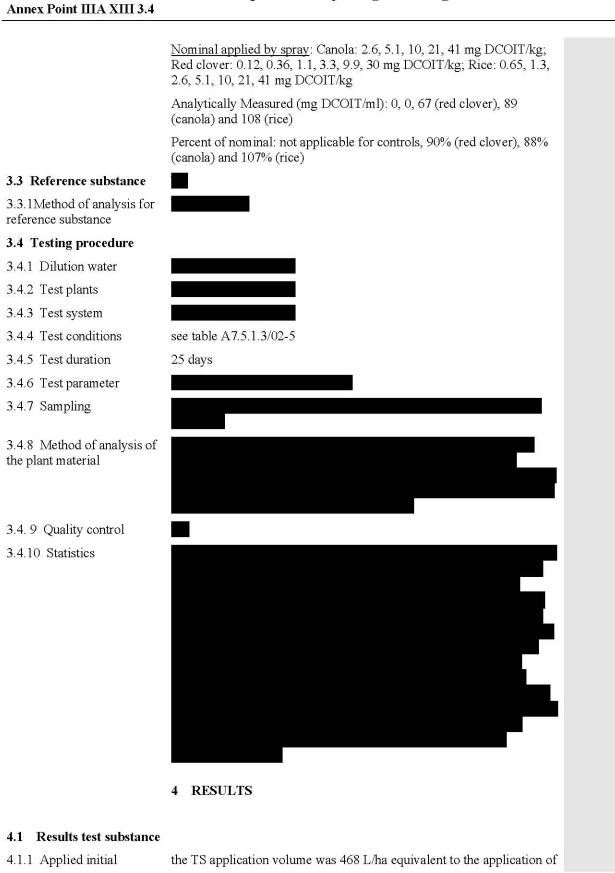
3.2 Preparation of TS solution for poorly soluble or volatile test substances

3.2.1 TS Concentrations Nominal (mg DCOIT/ml): 0(control), 0 (solvent control), 74 (red clover) and 101 (canola and rice)

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
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Terrestrial plant toxicity - vegetative vigor



Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
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concentration	17.39 mL/spray tray.				
4.1.2 Phytotoxicity rating	Not applicable				
4.1.3 Plant height	see table A7.5.1.3/02-6				
4.1.4 Plant dry weights	see table A7.5.1.3/02-6				
4.1.5 Root dry weights	Not applicable				
4.1.6 Root length	Not applicable				
4.1.7 Number of dead plants	see table A7.5.1.3/02-7				
4.1.8 Effect data	see table A7.5.1.3/02-7				
4.1.9 Concentration / response curve	Graph of the concentration-response curve at test termination not described in report				
4.1.10 Other effects	Canola: necrosis, chlorosis, decreased numbers of seed pods, decreased number of flowers and dead plants were noted.				
	Red clover: necrosis and dead plants were noted.				
	Rice: necrosis and chlorosis were noted.				
	see table A7.5.1.3/02-7				
4.2 Results of controls					
4.2.1 Number/percentage of	Canola: no effects				
plants showing adverse effects	Red clover: no effects				
	Rice: no effects				
4.2.2 Nature of adverse effects	Not applicable				
4.3 Test with reference substance	Not performed				
4.3.1 Concentrations	Not applicable				
4.3.2 Results	Not applicable				
	5 APPLICANT'S SUMMARY AND CONCLUSION				
5.1 Materials and methods	OECD Draft Guideline 208, Part B and OPPTS Draft Guidelines 850.4150 and 850.4250, vegetative vigor in terrestrial plants with analytical confirmation of dosing solutions.				
5.2 Results and discussion					
5.2.1 NOEC	see table A7.5.1.3/02-8	X			
5.2.2 EC ₂₅	see table A7.5.1.3/02-8				
5.2.3 EC ₅₀	see table A7.5.1.3/02-8				
5.3 Conclusion	see table A7.5.1.3/02-8				
5.3.1 Reliability	(1), reliable without restriction	X			
5.3.2 Deficiencies	No	X			

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
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	Evaluation by Competent Authorities
	Evaluation by Rapporteur Member State
Date	30 August 2006
Materials and Methods	Agree with applicant's version
Results and discussion	Comment (4.2.1): The result is presented as "no effects" for Canola. However, in table A7.5.1.3/02-7 it says that 39 of 40 plants in control and solvent control showed leaf curls. This is normally a sign of some kind of stress in plants.
Conclusion	Comment (5.2.1): An EC10 was calculated as a concervative estimate for NOEC for shoot length and shoot weight in rice. However, it should be noted that the 95 % confidence interval for this NOEC is relatively wide.
Reliability	Due to the restrictions described, reliability is changed from 1 to 2, valid with restrictions.
Acceptability	Acceptable with the restrictions noted above
Remarks	-

Rohm and Haas Company 4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) January 2006

RMS: Norway PT21

Section A7.5.1.3/02	Terrestrial plant toxicity – vegetative vigor – TABLES AND	
	FIGURES	

Rohm and Haas Company

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January 2006

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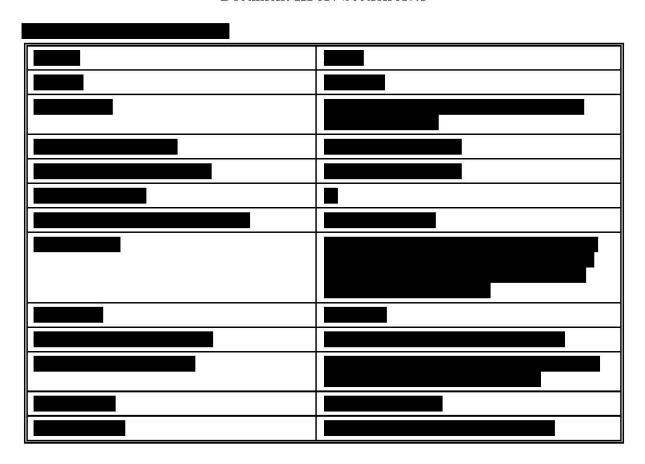


Table A7.5.1.3/02-5: **Test conditions**

Criteria	Details
Test type	Greenhouse
Method of application	Foliar spray
Application levels	468 L/ha, equivalent to 17.39 mL/spray tray
Dose rates	not applicable
Substrate characteristics	sandy loam, 1.3% organic earbon (2.2% organic matter)
Watering of the plants	Plants were irrigated using 200 mg/L Peters 20-20-20. Approximately 100 ml was provided to all pots by sub-irrigation twice weekly. All subsequent watering was provided using town well water.
Temperature	18 to 40 °C
Thermoperiod	Not applicable
Light regime	410 to 4300 footcandles and 4400 to 46,000 lux; natural sunlight supplemented with sodium vapor light; 16 hr light and 8 hr dark
Relative humidity	35 to 83%
Wind volatility	Not applicable
Observation periods and duration of test	Observation periods: 7, 14 and 21 days, shoot length

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Duration: 21 days after treatment, i.e. 25 days			
Pest control	Seeds were not pretreated with insecticides or fungicides.		
Any other treatments and procedures	not applicable		

Table A7.5.1.3/02-6: Effective phytotoxicity after test termination

Test Substance Concentration	120,1000	Absolute Numbers, Canola		t relative to ol, Canola		
(nominal) ¹ [mg DCOIT/kg]	Shoot length (cm)	length weight (g)		Shoot dry weight inhibition		
control	72.5	1.4362		×		
solvent control	74.2	1.5268		7		
2.6	75.0	1.2964	-2	12		
5.1	63.5	0.8422	13 *	43 *		
10	56.6	0.6823	23 *	54 *		
21	41.7	0.5466	43 *	63 *		
41	40.7	40.7 0.4562		69 *		
Temperature [°C]	18-40 °	18-40 °C over 22 days				
Relative humidity	35-82 %	35-82 % over 22 days				

¹ specify, if TS concentrations were nominal or measured * statistically different compared to the pooled control

Test Substance Concentration (nominal) ¹	Num	osolute bers, Red lover	Percent relative to control, Red clover		
[mg DCOIT/kg]	Shoot length (cm)	Shoot dry weight (g)	Shoot length inhibition	Shoot dry weight inhibition	
control	17.1	0.1133		1==	
solvent control	17.4	0.1273		:	
0.12	15.6	0.1078	10	10	
0.36	17.3	0.0911	0	24 *	
1.1	14.8	0.0934	14 *	22 *	
3.3	11.0	0.0558	36 *	54 *	
9.9	8.1	0.0330	53 *	73 *	
30	0.30	0.30 0.0031 98		97 *	
Temperature [°C]	18-40 °C over 22 days				
Relative humidity	37-83 % over 22 days				

¹ specify, if TS concentrations were nominal or measured * statistically different compared to the pooled control

Test Substance Concentration		Absolute Numbers, Rice		t relative to rol, Rice	
(nominal) ¹ [mg DCOIT/kg]	Shoot length (cm)	Shoot dry weight (g)	Shoot length inhibition	Shoot dry weight inhibition	
control	40.9	0.2278	520	X20	
solvent control	39.4	0.2443		188	
0.65	36.8	0.1894	8 *	20 *	
1.3	36.2	0.1845	10 *	22 *	
2.6	37.1	0.2144	7 *	9*	
5.1	33.2	0.1481	17 *	37 *	
10	32.8	0.1836	18 *	22 *	
21	32.4	0.1407	19 *	40 *	
41	30.9	0.1320	23 *	44 *	
Temperature [°C]	18-40 °C over 22 days				
Relative humidity	35-82 % over 22 days				

¹ specify, if TS concentrations were nominal or measured

Table A7.5.1.3/02-7: Morphological abnormalities, plant condition and mortalities

Test Substance	Canola					
Concentration	Mo	Morphological abnormalities ^a Plant Effect(%) ^b				
(nominal) ¹ [mg DCOIT/kg]	Necrosis	A Theorem 1 to the William W. Company of the William Company of the				
control	0	0	39	40	0	0
solvent control	0	0	39	40	0	0
2.6	0	0	40	40	0	0
5.1	0	0	35	39	0	0
10	0	40	40	40	14	0
21	0	38	30	36	18	2
41	2	40	29	36	21	0

Number of plants that died throughout the test period.

Test Substance			Red c	lover		
Concentration	Mo	Morphological abnormalities Plant Effect(%)				
(nominal) ¹ [mg DCOIT/kg]	Necrosis	Chlorosis	Leaf Curl	Flowers	Mean	Mortality
control	0	0	0	6	0	0
solvent control	0	0	0	4	0	0
0.12	0	0	0	2	0	0
0.36	0	0	0	7	0	0
1.1	40	0	0	0	12	0
3.3	40	0	0	0	29	0
9.9	38	0	0	0	44	2
30	5	0	0	0	96	35

^{*} statistically different compared to the pooled control

<sup>a Number of plants exhibiting the effect.
b An effect of 0 indicates a normal plant while an effect of 100 indicates a total plant effect.</sup>

<sup>a Number of plants exhibiting the effect.
b An effect of 0 indicates a normal plant while an effect of 100 indicates a total plant effect.
c Number of plants that died throughout the test period.</sup>

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Test Substance Concentration	Rice Morphological abnormalities ^a Plant Effect(%) ^b					
(nominal) ¹ [mg DCOIT/kg]	Necrosis	Chlorosis	Leaf Curl	Flowers	Mean	Mortality
control	0	0	0	0	0	0
solvent control	0	0	0	0	0	0
0.65	0	0	0	0	0	0
1.3	0	40	0	0	10	0
2.6	0	40	0	0	10	0
5.1	40	40	0	0	10	0
10	40	40	0	0	20	0
21	40	40	0	0	30	0
41	40	40	0	0	40	0

Table A7.5.1.3/02-8: Conclusions

		Shoot Lei (mg DC	ngth OIT/kg)	Sh	oot Dry Weight (mg DCOIT/kg)	
Species	NOEC	EC ₂₅	EC ₅₀	NOEC	EC ₂₅	EC ₅₀
Canola	2.6	11	>41	2.6	3.7	8.6
Lower CL		7.9			2.8	4.9
Upper CL	22	14	1	<u></u>	4.4	14
Red clover	0.36	2.2	8.8	0.12	0.94	3.1
Lower CL]	1.2	6.4		0.27	2.5
Upper CL	22	2.8	11		1.8	4.6
Rice	2.9 a	>41	>41	0.64 a	4.7	>41
Lower CL	0.91		:	0.25	2.6	
Upper CL	3.9		(r <u>Cappe</u>)	2.8	12	==

CL = confidence limit

Table A7.5.1.3/02-9: Validity criteria for terrestrial plant toxicity according to EPA OPPTS 850.4150 (vegetative vigor test)

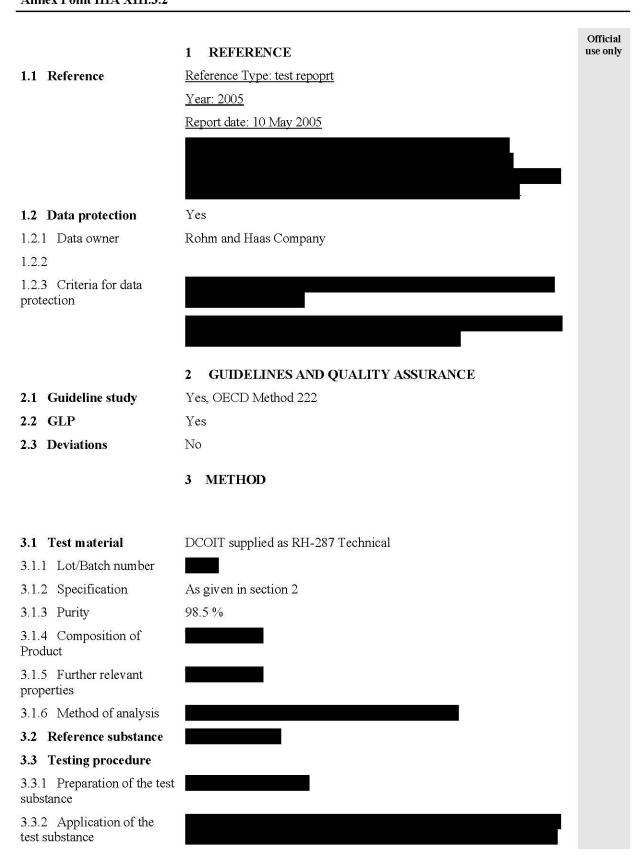
	Fulfilled	Not fulfilled
Adverse effect > 25 % on one or more plant species (EPA)	yes	

<sup>a Number of plants exhibiting the effect.
b An effect of 0 indicates a normal plant while an effect of 100 indicates a total plant effect.
c Number of plants that died throughout the test period.</sup>

 $^{^{\}rm a}$ An EC $_{10}$ was calculated as a conservative estimate of the NOEC.

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
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Section A7.5.2.1 Earthworm, chronic toxicity test Annex Point IIIA XIII.3.2



Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)
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Section A7.5.2.1 Annex Point IIIA XIII.3.2

Earthworm, chronic toxicity test



4 RESULTS

4.1	Filter paper test	Not performed
4.2	Soil test	
4.2.1	Initial concentrations of test substance	0 (control), 0 (vehicle control), 5.0, 10, 20, 40, 80 and 160 mg DCOIT/kg dry soil, nominal. The low and high dosing solution mean measured concentrations of TS were 3030 and 92,500 mg /L, representing 111 and 105% recovery, respectively.
4.2.2	Effect data (Mortality)	see table A7.5.2.1/01-5
4.2.3	Concentration / effect curve	None
4.2.4	Other effects	Not applicable
4.3	Results of controls	
4.3.1	Mortality	1% in deionized water control; 0% in acetone control
4.3.2	Number/ percentage of earthworms showing adverse	see table A7.5.2.1/01-6

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.2.1 Earthworm, chronic toxicity test Annex Point IIIA XIII.3.2

	effects	
4.3.3	Nature of adverse effects	None
4.4	Test with reference substance	Performed
4.4.1	Concentrations	0.13, 0.26, 0.51, 1, 2, and 4 mg carbendazim/kg dry soil
4.4.2	Results	NOEC <1.3 mg carbendazim/kg dry soil
		LOEC = 1.3 mg carbendazim/kg dry soil
		5 APPLICANT'S SUMMARY AND CONCLUSION
5.1	Materials and methods	OECD Method 222, Earthworm reproduction test
5.2	Results and discussion	DCOIT did not affect mortality and growth (percent weight change) at 28 days but did produce statistically significant reproduction effects at 10, 20, 40, 80 and 160 mg DCOIT/kg treatments at 56 days.
5.2.1	NOEC	160 mg DCOIT/kg dry soil (28-day survival and 28-day growth)
		5.0 mg DCOIT/kg dry soil (56-day reproduction)
5.2.2	LC_{10}	>160 mg DCOIT/kg dry soil (28-day survival and 28-day growth)
		< 5.0 mg DCOIT/kg dry soil (56-day reproduction)
5.2.3	LC_{50}	>160 mg DCOIT./kg dry soil (28-day survival and 28-day growth)
		25.9 mg DCOIT/kg dry soil (56-day reproduction)
5.2.4	LC_{100}	no concentration caused 100% mortality
5.3	Conclusion	see table A7.5.2.1/01-7 and see table A7.5.2.1/01-8
5.3.1	Other Conclusions	
5.3.2	Reliability	(1), reliable without restriction
5.3.3	Deficiencies	No

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

	Evaluation by Competent Authorities	
	Evaluation by Rapporteur Member State	
Date	12 September 2006	
Materials and Methods	Agree with applicant's version	
Results and discussion	Agree with applicant's version	
Conclusion	Agree with applicant's version	
Reliability	1, valid without restrictions	
Acceptability	Acceptable	
Remarks	-	

Rohm and Haas Com	1 pany 4,5-1
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4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)

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Section A7.5.2.1 Earthworm, chronic toxicity test – **TABLES AND FIGURES**



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Table A7.5.2.1/01-4: **Test conditions**

Criteria	Details
Test temperature	19.6 to 20.5 °C
Moisture content	Day 0 = 21.4 to 24.1 % Day 28: 28.0 to 34.7 % Day 56: 30.0 to 35.6 %
pН	Day 0 = 6.3 to 6.5; Day 28 = 6.6 to 7.0; Day 56: 5.6 to 6.6
Adjustment of pH	Not applicable
Light intensity / photoperiod	456.3 to 670.6 lux, 16 h light and 8 h dark
Relevant degradation products	Not applicable

Rohm and Haas Company

PT21

RMS: Norway

Table A7.5.2.1/01-5: Mortality data

Test Substance Concentration	Mortal	ity
(nominal) ¹ [mg DCOIT/kg artificial soil]	Number Dead or Missing Day 28	Percentage Day 28
0 (control)	1	⁶ 1
0 (acetone control)	0	0
5.0	0	0
10	0	0
20	0	0
40	0	0
80	0	0
160	0	0
Temperature [°C]	19.6 to 20.5 °C	
рН	6.6 to 7.0	
Moisture content	28.0 to 34.7%	

¹ specify, if TS concentrations were nominal or measured

Table A7.5.2.1/01-6: Number affected data

Test Substance Concentration	Number Affected			
(nominal) ¹ [mg DCOIT/kg		nominal) ¹ Worm weights (grams/rep		Mean Replicate Reproduction Day 56
artificial soil]	Mean change	% change	Number of juvenil worms	
0 (control)	3.383	63	221	
0 (acetone control)	3.318	59	234	
5	3.382	60	218	
10	3.204	61	177 *	
20	3.468	67	114 *	
40	3.178	59	89 *	
80	2.882	54	63 *	
160	2.643	50	7 *	
	Day 28	Day 56		
Temperature [°C]	19.6 to 20.5 °C		1	
pH	6.6 to 7.0	5.6 to 6.6	1	
Moisture content	28.0 to 34.7%	30.0 to 35.6%	7	

¹ specify, if TS concentrations were nominal or measured
* Statistically significant (p≤0.05) reduction in the number of juvenile worms produced as compared to control.

Table A7.5.2.1/01-7: Effect data

NOEC (survival)	160 mg DCOIT/kg dry soil (n)
28-day EC ₁₀ (survival)	>160 mg DCOIT/kg dry soil (n)
28-day EC ₅₀ (survival)	>160 mg DCOIT/kg dry soil (n)
NOEC (reproduction)	5.0 mg DCOIT/kg dry soil (n)
56-day EC ₁₀ (reproduction)	<5.0 mg DCOIT/kg dry soil (n)
56-day EC ₅₀ (reproduction)	25.9 mg DCOIT/kg dry soil (n) 95% C.L.: 16 to 36 mg DCOIT/kg dry soil
NOEC (growth)	160 mg DCOIT/kg dry soil (n)
28-day EC ₁₀ (growth)	>160 mg DCOIT/kg dry soil (n)
28-day EC ₅₀ (growth)	>160 mg DCOIT/kg dry soil (n)

¹ indicate if effect data are based on nominal (n) or measured (m) concentrations

Table A7.5.2.1/01-8: Validity criteria for acute earthworm test according to OECD 222

700	1000	
	fulfilled	Not fulfilled
Mortality of control animals < 10%	ves	

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.2.2	Long term toxicity to terrestrial plants	
	Justification for non-submission of data	Official use only
Other existing data []	Technically not feasible [] Scientifically unjustified []	
Limited exposure [X]	Other justification []	
Detailed justification:	Due to the rapid biodegradation of DCOIT in soil and to its low mobility, for the product type 8, long term exposure of terrestrial plants to significant concentrations of DCOIT is unlikely.	
Undertaking of intended data submission []	No	
	Evaluation by Competent Authorities	
	Evaluation by Rapporteur Member State	
Date	19 September 2006	
Evaluation of applicant's justification	Applicant's justification is acceptable.	
Conclusion	Applicant's justification is acceptable	
Remarks	=	

Rohm and Haas Compai	ıy
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4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)

January 2006

RMS: Norway

PT21

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Section A7.5.3.1.1/01 Annex Point IIIA XIII.1.1

Acute oral toxicity on birds - Mallard duck

Official use only 1. REFERENCE 1.1 Reference Reference Type: test repoprt Year: 1976 Report date: 23 September 1976 1.2 Data protection Yes 1.2.1 Data owner Rohm and Haas Company 1.2.2 1.2.3 Criteria for data protection 2. GUIDELINES AND QUALITY ASSURANCE No, no guidelines available at the time the study was conducted 2.1 Guideline study 2.2 GLP No, GLP was not compulsory at the time the study was performed 2.3 Deviations Yes, TS not analysed in dosing solutions and housing conditions were not described. 3 **METHOD** 3.1 Test material DCOIT (RH-287) 3.1.1 Lot/Batch number 3.1.2 Specification Test substance was a dilution of DCOIT in xylene. 3.1.3 Purity 77.2% DCOIT in xylene х 3.1.4 Composition of Product 3.1.5 Further relevant properties 3.1.6 Method of analysis 3.2 Reference substance 3.3 Testing procedure 3.3.1 Preparation of the test substance 3.3.2 Application of the

RMS: Norway

PT21

Document III-A / Section A7.5

Section A7.5.3.1.1/01 Annex Point IIIA XIII.1.1

Acute oral toxicity on birds - Mallard duck

test substance

3.3.3 Test organisms

3.3.4 Test system

3.3.5 Test conditions

Birds were maintained in a brooder with the temperature maintained at

 $37^{\circ}\mathrm{C}$ upon hatching through the completion of the study.

See table A7.5.3.1.1/01-4.

3.3.6 Test duration

3.3.7 Test parameter

3.3.8 Examination

3.3.9 Monitoring of test substance concentration

3.3.10 Statistics

8 days

4 RESULTS

4.1 Filter paper test

Not performed

4.2 Soil test

4.2.1 Initial concentrations of test substance

215, 464, 1000, 2150, 4640 (mg technical/kg bw)

4.2.2 Effect data (Mortality)

see table A7.5.3.1.1/01-5

4.2.3 Concentration / effect curve

TS mg	Body	Body
technical/kg	weight	weight
	Day 0 (g)	Day 8 (g)
215	216	390
464	208	412
1000	198	390
2150	189	352
4640	175	275

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 200
Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 20

PT21 **RMS: Norway**

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Section A7.5.3.1.1/01 Annex Point IIIA XIII.1.1

Acute oral toxicity on birds - Mallard duck

Other effects 4.2.4

TS mg technical/kg	Total estimated feed consumption (g)
215	4075
464	4375
1000	3525
2150	3550
4640	3400

4.3

Results of controls Day 0 and Day 8 body weight (g) and total estimated food consumption (g) for the control:

Dosage (mg/kg)	Day 0	Day 8	Total Estimated Food Consumption (g)
0	192	387	3875
0	204	420	3900
0	230	415	3775
0	217	395	3800
0	216	425	3850

- 4.3.1 Mortality No
- 4.3.2 Number/ None. All birds appeared normal and healthy.

percentage of earthworms showing adverse

effects

4.3.3 Nature of adverse Not relevant. effects

4.4 Test with reference substance

4.4.1 Dieldrin: 14.7, 21.5, 31.6, 46.6, and 68.2 mg/kg. Concentrations

4.4.2 Day 0 and Day 8 body weight (g) and total estimated food consumption Results

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.3.1.1/01 Annex Point IIIA XIII.1.1

Acute oral toxicity on birds - Mallard duck

Dosage (mg/kg)	Day 0	Day 8	Total Estimated Food Consumption (g)
Dieldrin			(3)
14.7	198	412	3825
21.5	200	380	3450
31.6	235	365	2100
46.6	212	315	2200
68.2	217	*	0

^{*} Data not available due to mortality

 $LD_{50} = 35.8 \text{ mg/kg} (C.I. = 28.0 - 45.7).$

4.5	Materials and methods	5 APPLICANT'S SUMMARY AND CONCLUSION
5.1	Results and discussion	Not a guideline study. Dosing solutions were administered by intubation directly into the crop of each bird via stainless steel catheter. The dosing solutions were administered based on kg body weight. The negative control birds received corn oil.
5.1.1	NOAEL	2150 mg technical/kg bw (1660 mg DCOIT/kg bw)
5.1.2	LD_{10}	ND
5.1.3	LD_{50}	> 4640 mg technical/kg bw (>3580 mg DCOIT/kg bw)
5.1.4	LD_{100}	
5.2	Conclusion	(2), reliable with restrictions
5.2.1	Other Conclusions	Yes, TS not analysed in dosing solutions and housing conditions were not described.

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

	Evaluation by Competent Authorities
	Evaluation by Rapporteur Member State
Date	16 September 2006
Materials and Methods	Comment (3.1.2): The only solvent mentioned in the study report was corn oil before dosing of the animals. It is not mentioned that the test compound was dissolved in xylene anywhere in the report.
	Comment (3.1.3): Purity of the test compound is not given in the study report.
Results and discussion	Agree with applicant's version
Conclusion	Agree with applicant's version
Reliability	2, valid with restrictions
Acceptability	Acceptable with the restrictions mentioned above
Remarks	-

Rohm	and	Haas	Com	pany
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4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)

January 2006

RMS: Norway

PT21

Section A7.5.3.1.1/01 Acute oral toxicity on birds - Mallard duck – TABLES AND FIGURES	
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RMS: Norway

PT21

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Table A7.5.3.1.1/01-4: Test conditions (housing)

Criteria	Details
Test temperature	37°C
Shielding of the animals	Not described
Ventilation	Not described
Relative humidity	Not described
Photoperiod and lighting	Not described

Table A7.5.3.1.1/01-5: Mortality data after test termination

Test substance dosage level	Ividitality after test termination (6 days)									
[mg technical/kg	1	otal nun	nber per	dose lev	el		Percenta	age per o	dose leve	i
bw]	Pen 1	Pen 2	Pen 3	Pen 4	Pen 5	Pen 1	Pen 2	Pen 3	Pen 4	Pen 5
0 (control)	0/10	200	EV240		1990	855		(2002)	N a	AND STATE OF THE S
215	0/10					0	==			
464	0/10	.957			s==	0		==	0.55	
1000	0/10				155	0				
2150	0/10	==		==		0	==:	==		
4640	3/10		1			30				

Table A7.5.3.1.1/01-6: Validity criteria for avian acute oral toxicity test according to EPA OPPTS 850.2100

	Fulfilled	Not fulfilled
Mortality of control animals <10%	Yes	

Rohm and Haas Company RMS: Norway		4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT) PT21	January 2006
IXIVIS.	Notway	Document III-A / Section A7.5	
a	N =		
	on A7.5.3.1.2/01 Point IIIA XIII.1.2	Short-term toxicity on birds- Bobwhite Quail	
			Official
		1 REFERENCE	use only
1.1	Reference	Reference Type: test repoprt	
		<u>Year: 1992</u>	
		Report date: 7 January 1992	
1.2	Data protection	Yes	
1.2.1	Data owner	Rohm and Haas Company	
1.2.2			#0
1.2.3	Criteria for data protection		,c
	r		
		2 GUIDELINES AND QUALITY ASSURANCE	
2.1	Guideline study	Yes, US EPA FIFRA 71-2	
2.2	GLP	Yes	
2.3	Deviations	No	
		3 METHOD	
3.1	Test material	DCOIT (RH-287 Technical)	
3.1.1	Lot/Batch number		
3.1.2	Specification	As given in section 2	
3.1.3	Purity	96.9%	
3.1.4	Composition of Product		
3.1.5	Further relevant properties		
3.1.6	Method of analysis		
3.2	Administration of the test substance		

Testing procedure 3.4.1 Test organisms

Reference substance

3.3

3.4

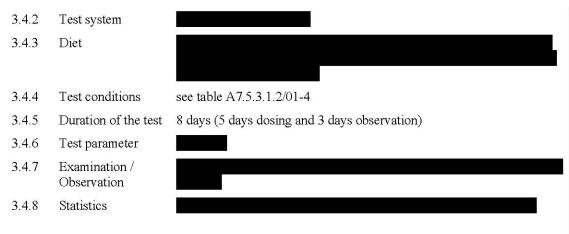
Rohm and Haas Company 4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	ıy 4,5-Die	as Company	ohm and H	ny 4,5-Dichlo	ro-2-octyl-21	I-isothiazol	-3-one (DCOI	T)
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RMS: Norway

PT21

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Section A7.5.3.1.2/01 Short-term toxicity on birds- Bobwhite Quail Annex Point IIIA XIII.1.2



RESULTS

4.1 Limit Test / Range finding test

Not performed

4.2 Results test

substance **Applied** 4.2.1

312, 625, 1250, 2500, 5000 ppm DCOIT

concentrations Effect data 4.2.2

see table A7.5.3.1.2/01-5

(Mortality) Body weight

4.2.3

Body weight change (g)

nominal concentration (mg/kg food)	0 h-day 5	days 6-8
control - I	+13	+8
control - II	+13	+8
control - III	+11	+8
control - IV	+15	+8
control -V	+16	+8
312	+13	+8
625	+14	+8
1250	+11	+8
2500	+7	+8
5000	-3	+8

X

RMS: Norway

PT21

Document III-A / Section A7.5

4.2.4 Food consumption

food consumption/bird/day (g)

Nominal	0 h-day 5	days 6-8
concentration	1	0.531
(mg/kg food)		
control - I	5	8
control - II	5	7
control - III	5	6
control - IV	5	6
control -V	6	9
312	5	7
625	5	8
1250	5	7
2500	4	7
5000	2	6

4.2.5 Concentration / response curve

Not described

4.2.6 Other effects

Reduced bw, reduced feed consumption, lethargy, anorexia were evident in the 5000 ppm DCOIT group. There were no abnormal gross necropsy findings. Complete remission of clinical signs was achieved in survivors by the first day of observation (day 6).

4.3 Results of controls

4.3.1 Number/ percentage of animals showing adverse effects No mortality, no symptoms of toxicity in the 5 groups of 10 control birds

4.3.2 Nature of adverse effects

Not applicable

4.4 Test with reference substance

Not performed

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

US EPA FIFRA 71-2, Acute dietary toxicity test to birds with analytical confirmation of TS concentration in feed.

5.2 Results and discussion

The TS in the feed stored in the freezer for up to 5 days is stable; however, the TS partially degrades at elevated temperatures in the animal room for one day. The analyses displayed that the lower the initial test concentration, the greater the degradation.

NOEC 1250 mg DCOIT/kg food

5.2.2 LC₀

5.2.1

2500 mg DCOIT/kg food

Rohm and Haas Company RMS: Norway		4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006	
		PT21		
		Document III-A / Section A7.5		
5.2.3	LC_{50}	>4640 mg DCOIT/kg food		
5.2.4	LC_{100}	Not applicable		
5.3	Conclusion	see table A7.5.3.1.2/01-6		
5.3.1	Reliability	(1), reliable without restriction		
5.3.2	Deficiencies	No		

	Evaluation by Competent Authorities	
	Evaluation by Rapporteur Member State	
Date	16 September 2006	
Materials and Methods	Comment (3.4.1): The initial body weights reported in this form disagree with the study report. According to table 2 in the study report the average weight of the birds was 23-25 g at study start.	
Results and discussion	Comment (4.2.6): A weak body weight reduction and reduced feed consumption was registered in group IV (2500 ppm) in addition to the stronger effects seen in group V (5000 ppm).	
Conclusion	Agree with applicant's version	
Reliability	1, valid without restrictions	
Acceptability	Acceptable	
Remarks	±	

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.3.1.2/01 Short-term toxicity on birds- Bobwhite Quail – **TABLES AND FIGURES**

Rohm and Haas Company

RMS: Norway

PT21

January 2006



Table A7.5.3.1.2/01-4: Test conditions (housing)

Criteria	Details
Test temperature	102 degrees F (39°C)
Shielding of the animals	Not described
Ventilation	Adequate
Relative humidity	60%
Photoperiod and lighting	full spectrum fluorescent, continuous (24 h/day)

January 2006

RMS: Norway PT21

Table A7.5.3.1.2/01-5: Mortality data after test termination

Test substance dosage level			Moi	tality af	ter test t	erminati	ion (days	s 6-8)		
[mg/kg food]	Total number per dose level				Percentage per dose level					
(nominal)	Pen 1	Pen 2	Pen 3	Pen 4	Pen 5	Pen 1	Pen 2	Pen 3	Pen 4	Pen 5
0 (control)	0/10	0/10	0/10	0/10	0/10	177			, see	
312	0/10					0				
625	0/10				3 	0		(Section)	n es	
1250	0/10	200	<u> </u>			0		-	7 24	
2500	0/10	1 111		E-		0	124	122		
5000	0/7 *	v==	F-1-0		95 -55	0			VI ENE	5.70 0.
Temperature [°C]	39				1		•	•	•	•
Relative humidity	60 %	144	200	<u> </u>	722					

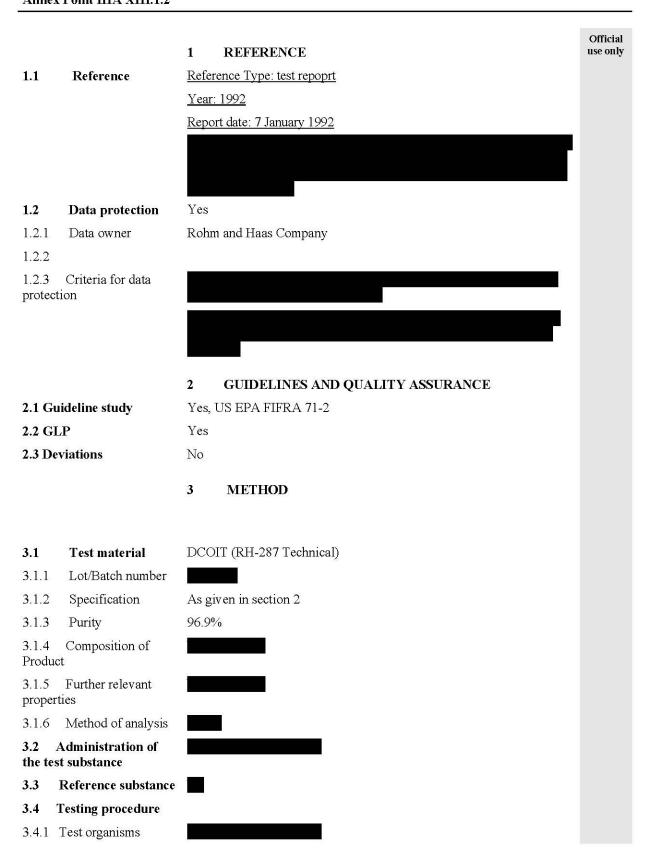
^{*} three birds died in the 5000 ppm ai dose group – one each on days 3, 4 and 5.

Table A7.5.3.1.2/01-6: Validity criteria for short-term toxicity test according to OECD 205

	Fulfilled	Not fulfilled
Mortality of control animals <10%	yes	
Test substance concentration > 80 % of nominal concentration throughout the dosing period	yes	
Lowest treatment level causing no compound-related mortality or other observable toxic effects	yes	

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.3.1.2/02 Short-term toxicity on birds – Mallard duck Annex Point IIIA XIII.1.2



	Rohm and Haas	Company	4,5-Dichloro-2-
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4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)

January 2006

RMS: Norway

PT21

Document III-A / Section A7.5

Section A7.5.3.1.2/02 Short-term toxicity on birds – Mallard duck Annex Point IIIA XIII.1.2

3.4.2 Test system

3.4.3 Diet

3.4.4 Test conditions

3.4.5 Duration of the test

3.4.6 Test parameter

3.4.7 Examination / Observation

3.4.8 Statistics

see table A7.5.3.1.2/02-4

9 days (5 days dosing and 4 days observation)

RESULTS

4.1 Limit Test / Range finding test

4.2 Results test substance

4.2.1 Applied concentrations

4.2.2 Effect data (Mortality)

4.2.3 Body weight

Not performed

 $312,\,625,\,1250,\,2500,\,5000\;\mathrm{mg}\;\mathrm{DCOIT/kg}\;\mathrm{food}$

see table A7.5.3.1.2/02-5

Body weight change (g)

nominal concentration (mg/kg	0 h-day 5	days 6-9
food)		
control - I	+114	+119
control - II	+115	+161
control - III	+101	+157
control - IV	+102	+112
control -V	+91	+119
312	+104	+109
625	+99	+121
1250	+93	+124
2500	+43	+134
5000	-23	+133

RMS: Norway

PT21

Document III-A / Section A7.5

4.2.4 Food consumption

Food consumption/bird/day (a)

Food consumption/bird/		1
nominal	0 h-day 5	days 6-9
concentration (mg/kg	55501	
food)		
control - I	61	73
control - II	58	72
control - III	57	71
control - IV	59	78
control -V	63	84
312	55	61
625	64	65
1250	52	79
2500	35	75
5000	18	61

4.2.5 Concentration / response curve

Not described

4.2.6 Other effects

Clinical signs of toxicity noted during the test period were asthenia and smallness of size in one bird in each of the 1250 and 2500 ppm DCOIT groups, reduced body weight and feed consumption in the 2500 and 5000 ppm DCOIT groups and lethargy in the 5000 ppm ai group. Complete remission of clinical signs was achieved in survivors by test day 6. Gross pathology was revealed no abnormal findings.

4.3 Results of controls

4.3.1 Number/percentage of animals showing adverse effects

No mortality, no symptoms of toxicity in the 5 groups of 10 control birds

4.3.2 Nature of adverse effects

Not applicable

4.4 Test with reference substance

Not performed

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

	5 APPLICANT'S SUMMARY AND CONCLUSION		
5.1 Materials and methods	US EPA FIFRA 71-2, Acute dietary toxicity test to birds with analytical confirmation of TS concentration in feed.		
5.2 Results and discussion	The TS in the feed stored in the freezer for up to 5 days is stable; however, the TS partially degrades at elevated temperatures in the animal room for one day. The analyses displayed that the lower the initial test concentration, the greater the degradation.		
5.2.1 NOEL	625 ppm (mg/kg food) DCOIT		
$5.2.2 LC_0$	625 ppm (mg/kg food) DCOIT		
5.2.3 LC ₅₀	> 4640 mg DCOIT/kg food		
5.2.4 LC ₁₀₀	Not applicable		
5.3 Conclusion	see table A7.5.3.1.2/02-6		
5.3.1 Reliability	(1), reliable without restriction		
5.3.2 Deficiencies	No		

	Evaluation by Competent Authorities		
	Evaluation by Rapporteur Member State		
Date	18 September 2006		
Materials and Methods	Agree with applicant's version		
Results and discussion	Agree with applicant's version		
Conclusion	Agree with applicant's version		
Reliability	1, valid without restrictions		
Acceptability	Acceptable		
Remarks	=		

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.3.1.2/02 Short-term toxicity on birds – Mallard duck – **TABLES AND FIGURES**

RMS: Norway

PT21

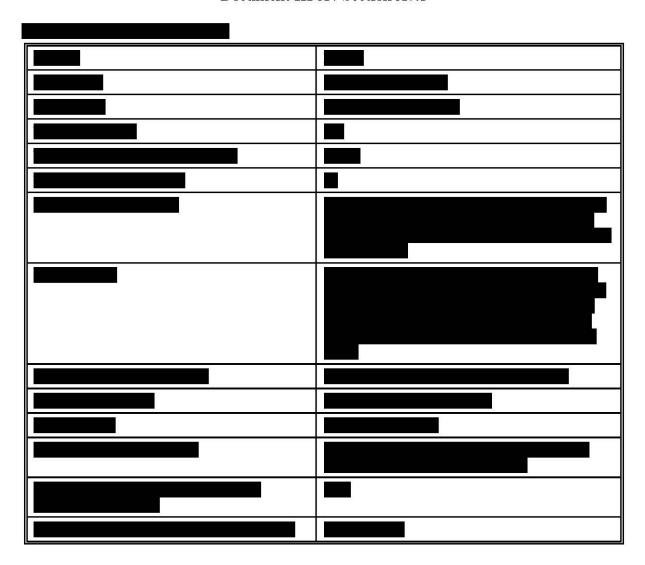


Table A7.5.3.1.2/02-4: Test conditions (housing)

Criteria	Details
Test temperature	average 82 °F (28 °C)
Shielding of the animals	Not described
Ventilation	adequate
Relative humidity	average 83%
Photoperiod and lighting	full spectrum fluorescent, continuous (24 h/day)

January 2006

RMS: Norway PT21

Table A7.5.3.1.2/02-5: Mortality data after test termination

Test substance dosage level			Moi	tality af	ter test t	erminati	ion (days	s 6-9)		
[mg/kg food]	П	otal nun	nber per	dose lev	el		Percenta	ercentage per dose level		
(nominal)	Pen 1	Pen 2	Pen 3	Pen 4	Pen 5	Pen 1	Pen 2	Pen 3	Pen 4	Pen 5
0 (control)	0/10	0/10	0/10	0/10	0/10	2 5.5				
312	0/10					0				
625	0/10				3 	0		Section 1		
1250	0/9 *	500	<u> </u>			0		-	W-DA	
2500	0/9 *	1222		E-		0	124	122		
5000	1/10 *		F-1-0		95 -55	10			// E==	Total k
Temperature [°C]	28				1		•	•	•	•
Relative humidity	83 %	122	2229	12021		1				

^{*} three birds died in this study - one each in the 1250, 2500 and 5000 ppm DCOIT groups.

Table A7.5.3.1.2/02-6: Validity criteria for short-term toxicity test according to OECD 205

	Fulfilled	Not fulfilled
Mortality of control animals <10%	yes	
Test substance concentration > 80 % of nominal concentration throughout the dosing period	yes	
Lowest treatment level causing no compound-related mortality or other observable toxic effects	yes	

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.3.1.3 Bird reproduction			
	Justification for non-submission of data	Official use only	
Other existing data []	Technically not feasible [] Scientifically unjustified [X]		
Limited exposure [X]	Other justification []		
Detailed justification:	The acute and short term toxicity tests in birds indicate a low toxicity of DCOIT. Besides, due to the rapid biodegradation of DCOIT in the environment and to its low potential for bioaccumulation, the exposure of birds to DCOIT in the wood preservatives application is expected to be very limited		
	As a consequence, the bird reproduction test is not considered to be necessary.		
Undertaking of intended data submission []	No		
	Evaluation by Competent Authorities		
	Evaluation by Rapporteur Member State		
Date	19 September 2006		
Evaluation of applicant's justification	Applicant's justification is acceptable		
Conclusion	Applicant's justification is acceptable		
Remarks	8		

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.4	Effects on honeybees		
	Justification for non-submission of data	Official use only	
Other existing data []	Technically not feasible [] Scientifically unjustified []		
Limited exposure [X]	Other justification []		
Detailed justification:	Due to the use pattern of DCOIT in the wood preservation application, honeybees are not expected to be exposed to significant concentration of DCOIT in the environment.		
	As a consequence, toxicity tests on honey bees anot considered to be necessary.		
Undertaking of intended data submission []	No		
	Evaluation by Competent Authorities		
	Evaluation by Rapporteur Member State		
Date	19 September 2006		
Evaluation of applicant's justification	Applicant's justification is acceptable		
Conclusion	Applicant's justification is acceptable		
Remarks			

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.5.1	Bioconcentration in earthworms		
	Justification for non-submission of data	Official use only	
Other existing data [x]	Technically not feasible [] Scientifically unjustified [X]		
Limited exposure []	Other justification []		
Detailed justification:	The potential of DCOIT bioconcentration in earthworms is very low.		
	Indeed, the log P_{ow} is 2.8, indicates a low potential for bioaccumulation. Besides, DCOIT was shown to be rapidly biodegradaded in soil with half-life less than 2 days (section A7.2.1).	x	
	Bioconcentration was studied in aquatic organisms (see section A7.4.3.3) and the results indicated a low bioaccumulation potential for DCOIT.		
	As a consequence, the bioconcentration study in earthworms was not performed.		
Undertaking of intended data submission []	No.		
	Evaluation by Competent Authorities		
	Evaluation by Rapporteur Member State		
Date	19 September 2006		
Evaluation of applicant's justification	The DT50 from study A7.2.1 is 4.7 days at 12°C. However, biodegradation of DCOIT in soil is still rapid and based on a log Kow of 2.8 DCOIT is expected to have a low potential of bioconcentration in soil organisms and therefore the applicant's justification is acceptable.		
Conclusion	Applicant's justification is acceptable		
Remarks	=		

Rohm and Haas Company	4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)	January 2006
RMS: Norway	PT21	

Section A7.5.6 Annex Point IIIA XIII.2.1	Effects on other terrestrial non-target organisms		
	Justification for non-submission of data	Official use only	
Other existing data []	Technically not feasible [] Scientifically unjustified [X]		
Limited exposure [X]	Other justification []		
Detailed justification:	Further tests on terrestrial organisms are not considered to be necessary.		
Undertaking of intended data submission []	No		
	Evaluation by Competent Authorities		
	Evaluation by Rapporteur Member State		
Date	19 September 2006		
Evaluation of applicant's justification	Applicant's justification is acceptable		
Conclusion	Applicant's justification is acceptable		
Remarks	E .		

RMS: Norway

PT21

Document III-A / Section A7.5

Section A7.5.7 Effects on mammals

Tests with mammals are summarised in the Toxicological section (Section A6). The summaries are not repated in the current section, please refer to section A6.

Section A7	End point	Authors	Section A6 cross-reference
A7.5.7.1.1	Acute Oral LD ₅₀ Toxicity Rat		A6.1.1/01
A7.5.7.1.1	Acute Oral LD ₅₀ Toxicity Mouse		A6.1.1/02
A7.5.7.1.2	Short-term toxicity- Repeated 28-day oral dose toxicity in rats		A6.3.1/01
A7.5.7.1.2	Short term toxicity- Repeated dermal dose toxicity in rabbits		A6.3.2/01
A7.5.7.1.2	Subchronic toxicity- Repeated 90-day oral dose toxicity in rats		A6.4.1a/01
A7.5.7.1.2	Subchronic toxicity- Repeated 90-day oral dose toxicity in dogs		A6.4.1b/01
A7.5.7.1.2	Subchronic toxicity- Repeated inhalation dose toxicity in rats		A6.4.3/01
A7.5.7.1.3	Effects on reproduction Teratogenicity - rabbits		A6.8.1a/01
A7.5.7.1.3	Effects on reproduction Teratogenicity -rats		A6.8.1b/01
A7.5.7.1.3	Effects on reproduction Teratogenicity - rats		A6.8.1b/02
A7.5.7.1.3	Effects on reproduction- Multigeneration reproduction toxicity rats		A6.8.2

Directive 98/8/EC on the placing of biocidal products on the market.

Dossier for the inclusion of an active substance in the Annex 1

4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)

Product type 21: Antifouling products

Document III-A (A8-A9) Study summaries – Active substance

Section A8: Measures necessary to protect man, animals and the environment Section A9: Classification and labelling

Rohm and Haas Company 4,5-Dichloro-2-octyl-2H-isothiazol-3-one (DCOIT)		January 2006
RMS: Norway	PT21	
	Document III-A / Section A8-A9	
Section A8	Measures necessary to protect man, animals ar environment	nd the

This information for DCOIT as an active substance has already been submitted in the DCOIT dossier for product type 8. Please refer to this dossier, Document IIIA 8-9.

Section A9 Classification and labelling

This information for DCOIT as an active substance has already been submitted in the DCOIT dossier for product type 8. Please refer to this dossier, Document IIIA 8-9.