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Amount					



7.2.2.3 Extent and nature of bound residues

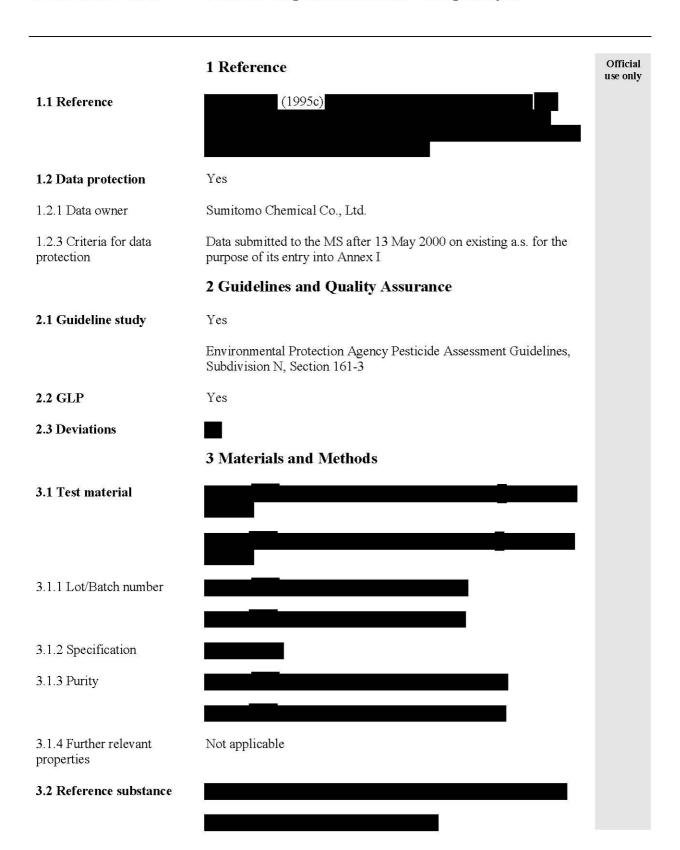
No specific studies available. Further studies are not required as sufficient information on the extent and nature of bound residues in soil is provided in the laboratory aerobic soil metabolism studies (section 7.2.2.1).

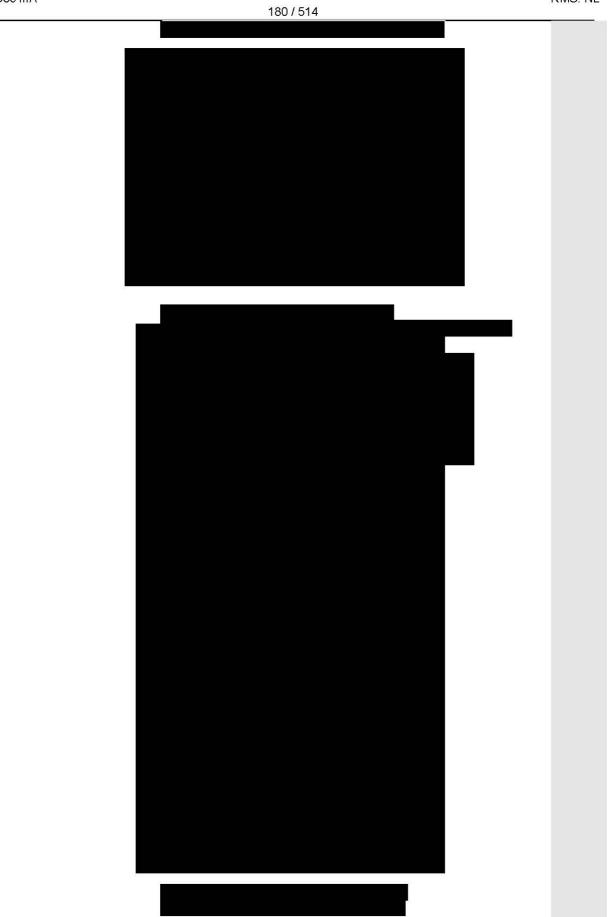
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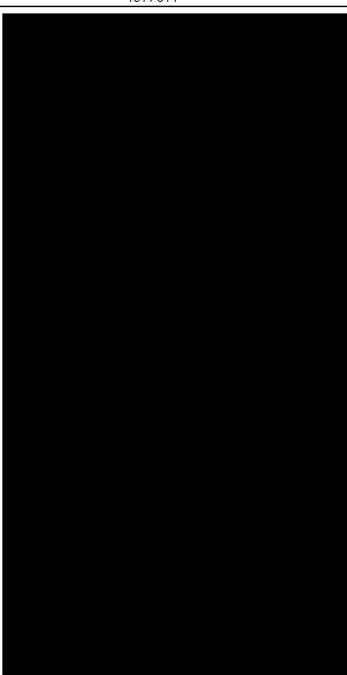
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7.2.2.4 Other soil degradation studies

Section A7.2.2.4/01 Other soil degradation studies - soil photolysis



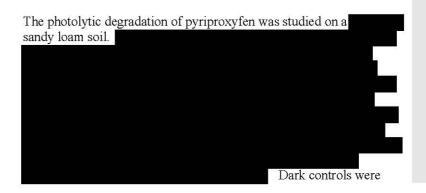


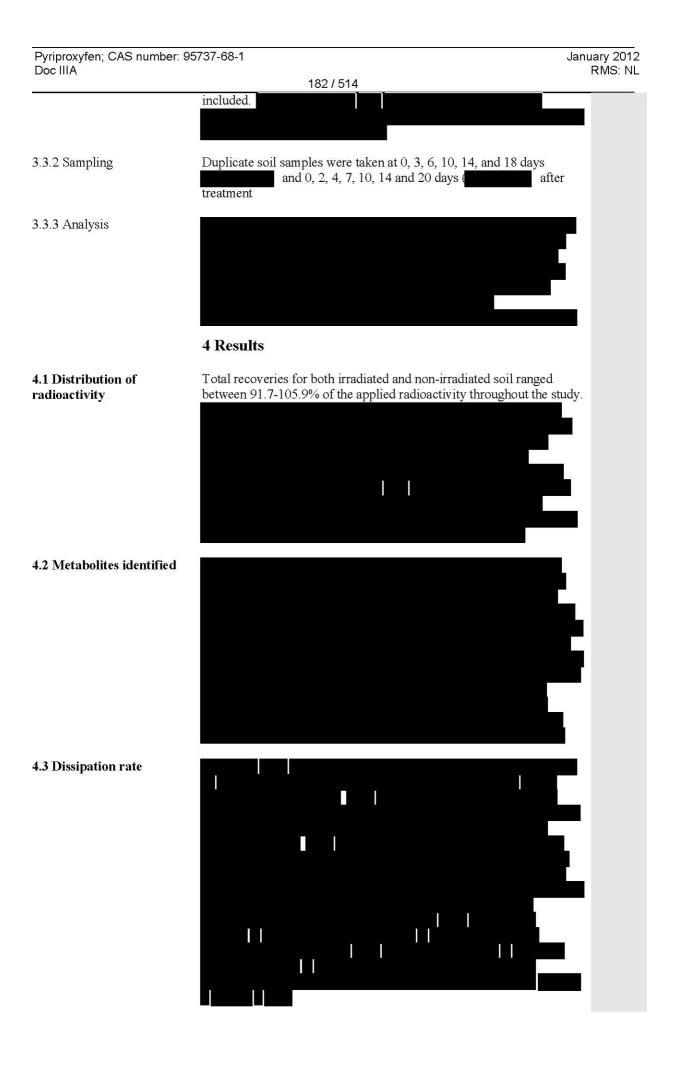


3.2.1 Initial concentration of reference substance

3.3 Testing procedure

3.3.1 Test system





5 Applicant's Summary and Conclusion

5.1 Materials and methods

The photolytic degradation of pyriproxyfen was studied on a sandy loam soil

The Environmental Protection Agency Pesticide Assessment Guidelines, Subdivision N, Section 161-3 guidelines were followed without significant deviations

5.2 Results and discussion



5.3 Conclusion

The degradation of pyriproxyfen is accelerated under irradiated conditions. The first order DT_{50} of pyriproxyfen was 7.99-14.1 days in irradiated soil (r^2 0.86-0.96) and 16.2-29.1 days in dark soil (r^2 0.85-0.89). was the most important metabolite in the irradiated soil (max. 13.1% AR). Other identified metabolites in irradiated soil were (max. $\leq 3.5\%$ AR) and (max. $\leq 0.6\%$ AR). All metabolites observed in the irradiated soil were also present in the dark control

5.3.1 Reliability

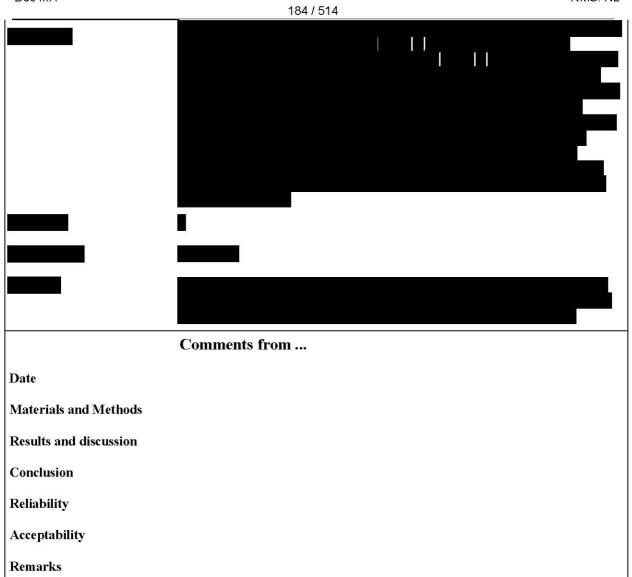
5.3.2 Deficiencies

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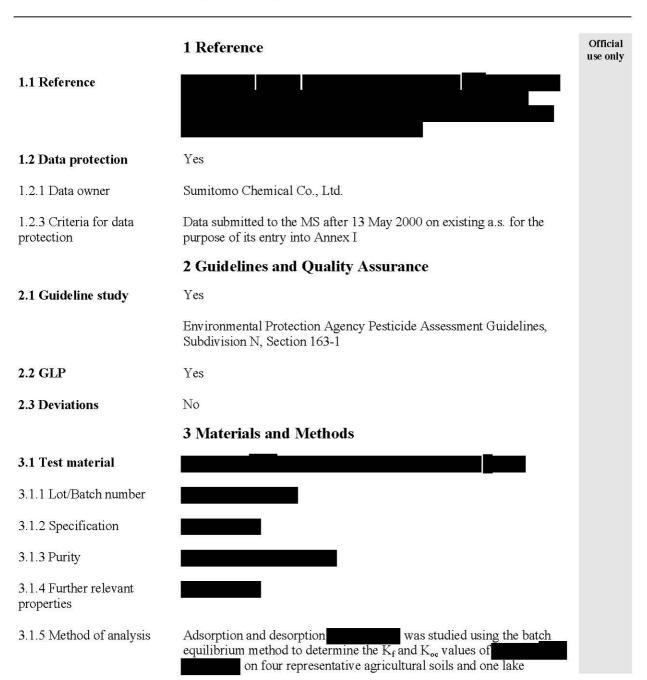
7.2.3 Adsorption and mobility in soil, further studies

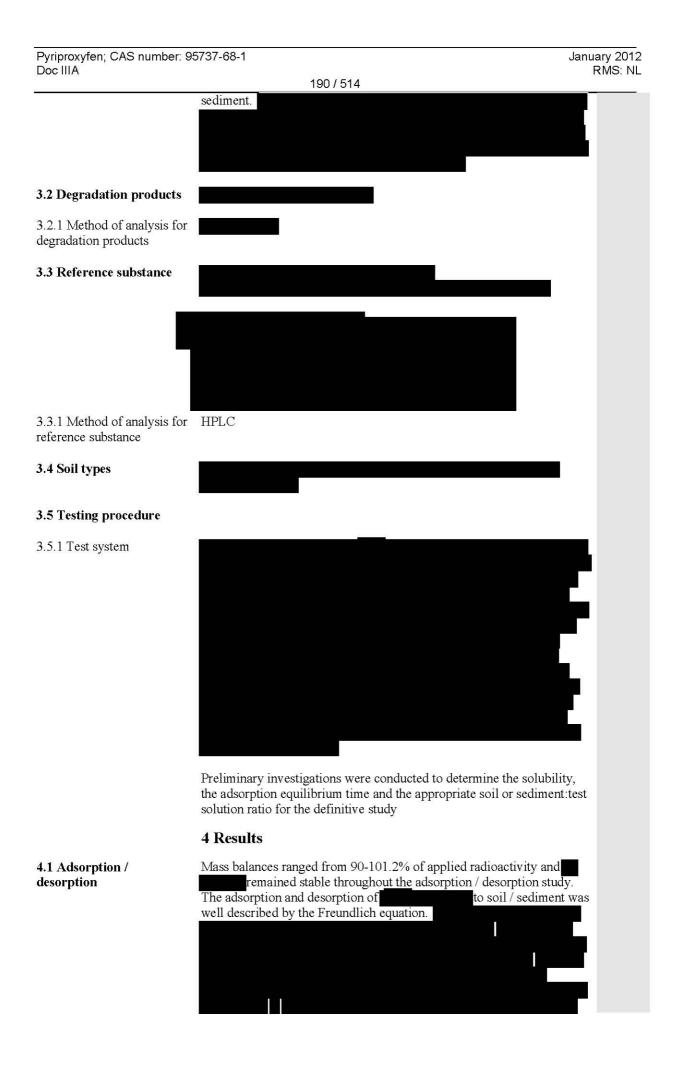
See section 7.2.3.1

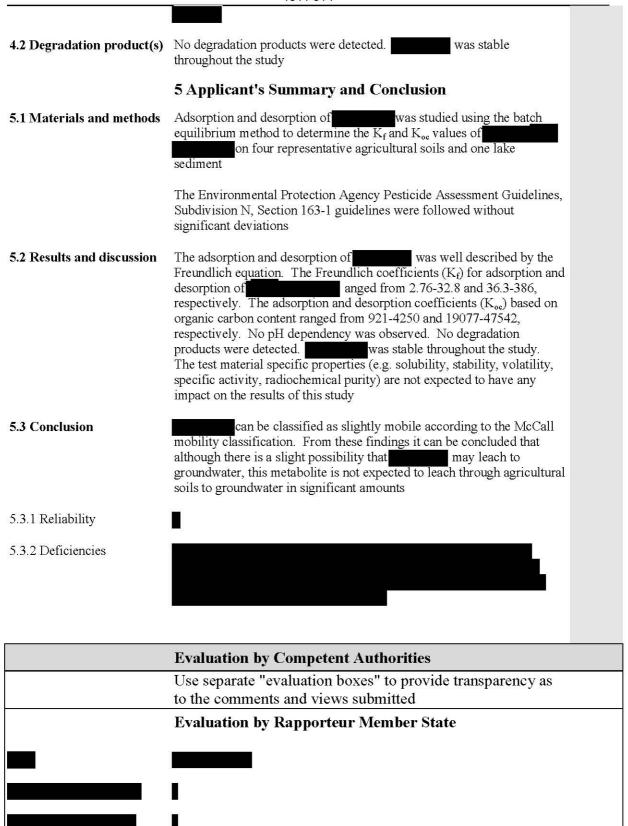
7.2.3.1 Adsorption and desorption in accordance with the new test guideline EC C18 or the corresponding OECD 106 and, where relevant, adsorption and desorption of metabolites and degradation products

The adsorption / desorption data for pyriproxyfen are summarised in section 7.1.3.

Section A7.2.3.1/01 Adsorption and desorption of metabolites and degradation products







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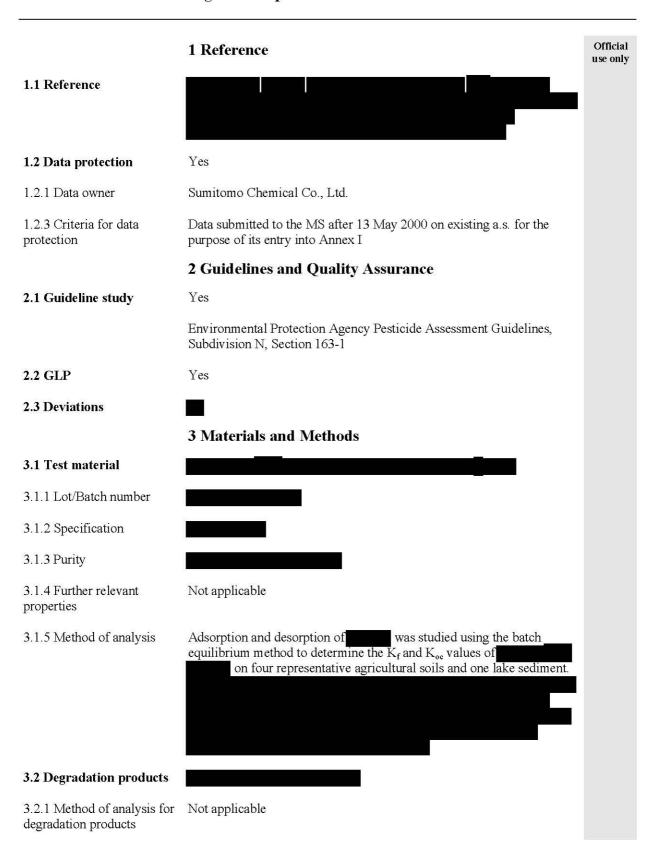
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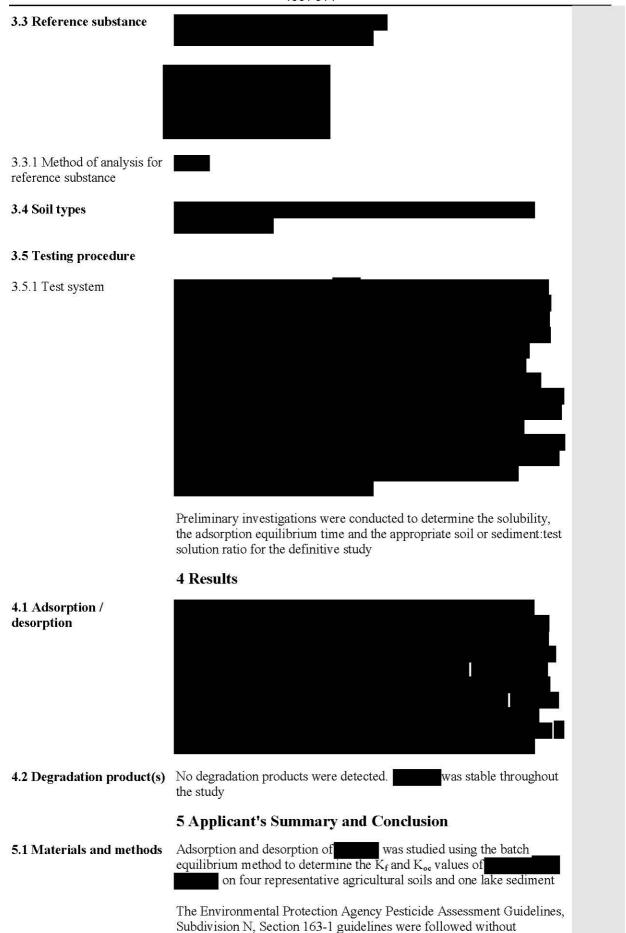
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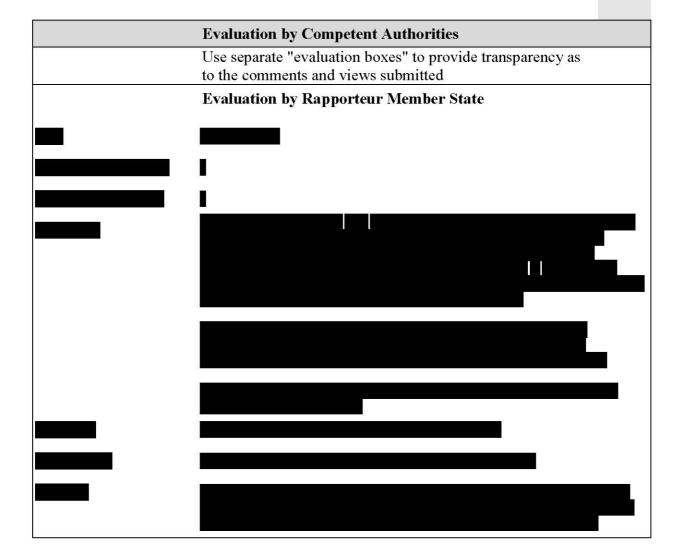
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Section A7.2.3.1/02 Adsorption and desorption of metabolites and degradation products





197 / 514 significant deviations The adsorption and desorption of was well described by the Freundlich equation. The Freundlich coefficients (K_f) for adsorption and 5.2 Results and discussion desorption of ranged from 0.11-0.34 and 0.45-1.05, respectively. The adsorption and desorption coefficients (K_{oe}) based on organic carbon content ranged from 9-120 and 57-881, respectively. No pH dependency was observed. No degradation products were detected. was stable throughout the study. The test material specific properties (e.g. solubility, stability, volatility, specific activity, radiochemical purity) are not expected to have any impact on the results of this study 5.3 Conclusion can be classified as highly to moderately mobile according to the McCall mobility classification. This metabolite may therefore have an appreciable potential of leaching through agricultural soils to groundwater 5.3.1 Reliability 5.3.2 Deficiencies



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Section A7.2.3.1/03 Adsorption and desorption of metabolites and degradation products

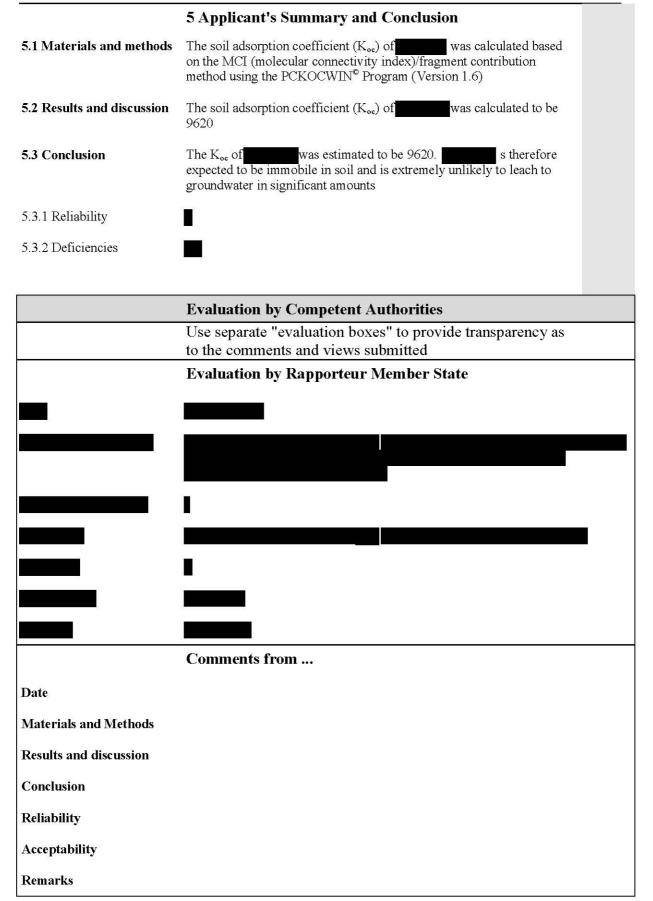
Official 1 Reference use only 1.1 Reference Yes 1.2 Data protection 1.2.1 Data owner Sumitomo Chemical Co., Ltd. 1.2.3 Criteria for data Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I protection 2 Guidelines and Quality Assurance 2.1 Guideline study No Not applicable. Calculation only 2.2 GLP No Calculation only 2.3 Deviations 3 Materials and Methods 3.1 Test material Not applicable. Calculation only 3.1.1 Lot/Batch number Not applicable. Calculation only 3.1.2 Specification Not applicable. Calculation only Not applicable. Calculation only 3.1.3 Purity 3.1.4 Further relevant Not applicable. Calculation only properties 3.2 Reference substance Not applicable. Calculation only 3.2.1 Initial concentration of Not applicable. Calculation only reference substance The soil adsorption coefficient (Koc) of was calculated based 3.3 Test system on the MCI (molecular connectivity index)/fragment contribution method using the PCKOCWIN® Program (Version 1.6) 4 Results 4.1 Estimated Koc The soil adsorption coefficient (K_{oc}) of was calculated to be 9620

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Pyriproxyfen and its metabolites are not expected to be mobile and will not leach through agricultural soils in significant amounts. It is expected to be mobile in soil and may therefore have an appreciable potential to leach through agricultural soils to groundwater. However, this metabolite is not formed in significant amounts in soil (max. 8.6% AR) and is readily degraded (DT₅₀ 0.4-37 days). It is therefore unlikely that will leach through soils to groundwater in significant amounts.

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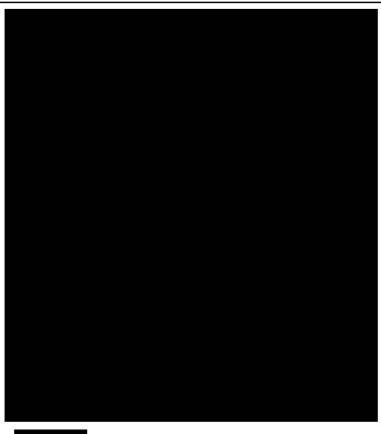
7.2.3.2 Mobility in at least three soil types and where relevant mobility of metabolites and degradation products

Mobility in at least three soil types and where relevant Section A7.2.3.2/01 mobility of metabolites and degradation products

	1 Reference	Ous
1.1 Reference		
1.2 Data protection	Yes	
1.2.1 Data owner	Sumitomo Chemical Co., Ltd.	
1.2.3 Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I $$	
	2 Guidelines and Quality Assurance	
2.1 Guideline study	No	
	When the study was performed no guidelines were available	
2.2 GLP		
2.3 Deviations		
	3 Materials and Methods	
3.1 Test material		
3.1.1 Lot/Batch number		
3.1.2 Specification	e	
3.1.3 Purity		
3.1.4 Further relevant properties	Not applicable	
3.2 Reference substance		

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3.2.1 Initial concentration of reference substance

3.3 Testing procedure

3.3.1 Test system The leaching behavior

The leaching behaviour of pyriproxyfen was investigated by soil column method using silt loam and sandy loam soils.

3.3.2 Sampling

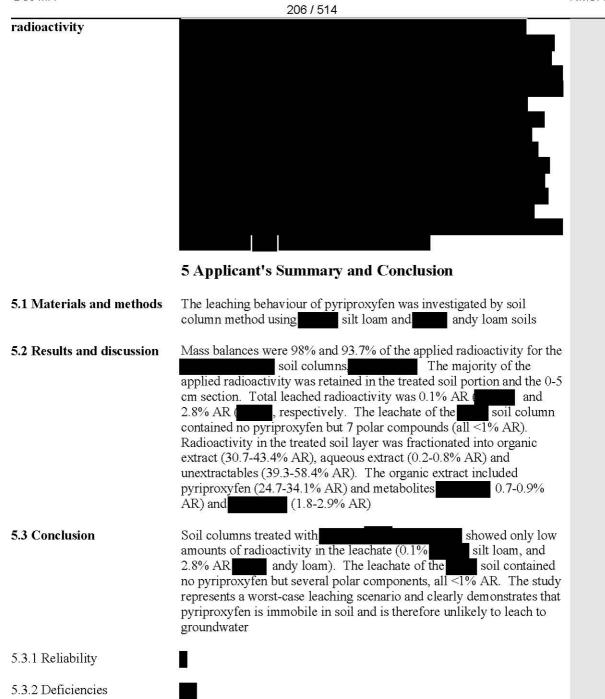
Leachate was collected as a single fraction at the end of leaching

3.3.3 Analysis

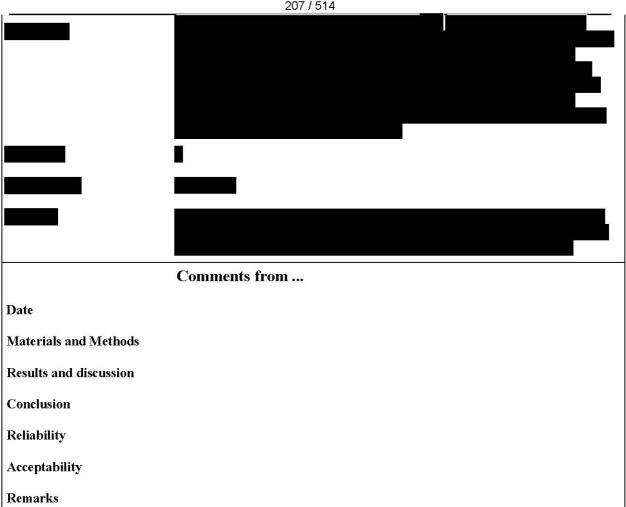


4 Results

4.1 Distribution of



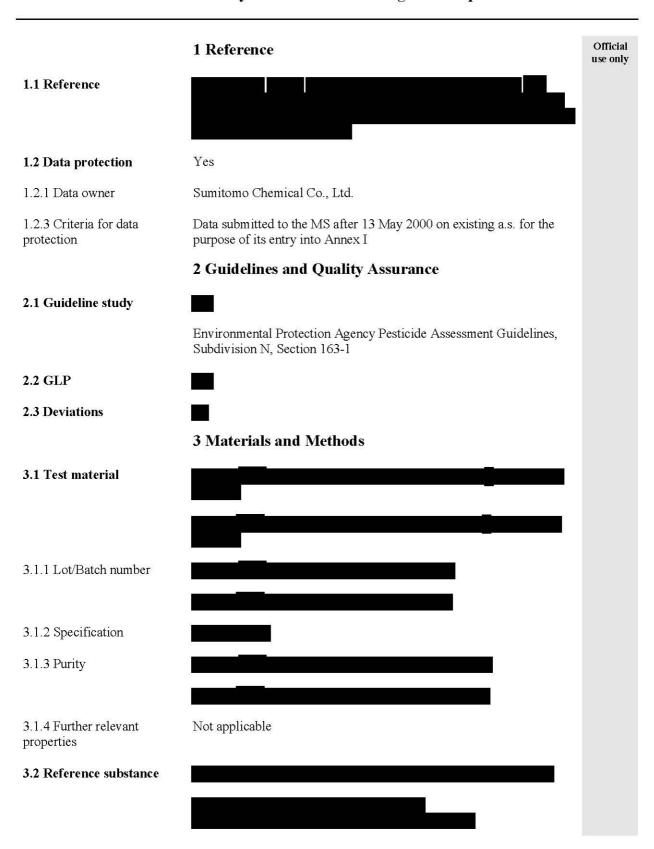
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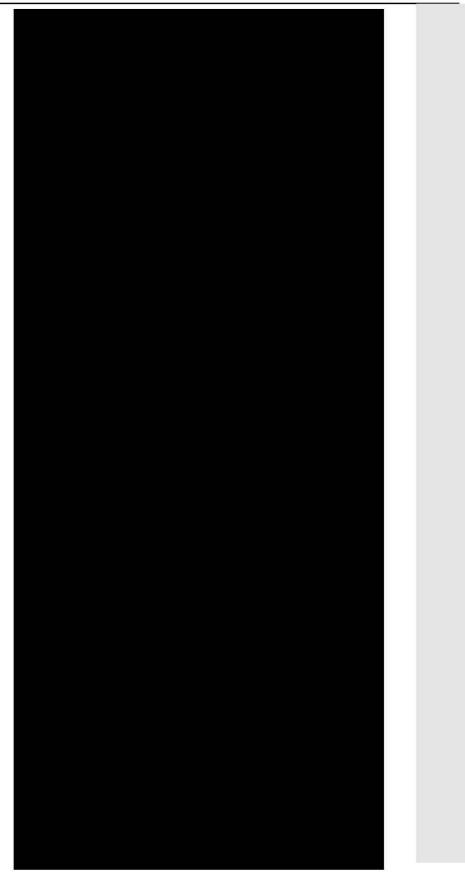


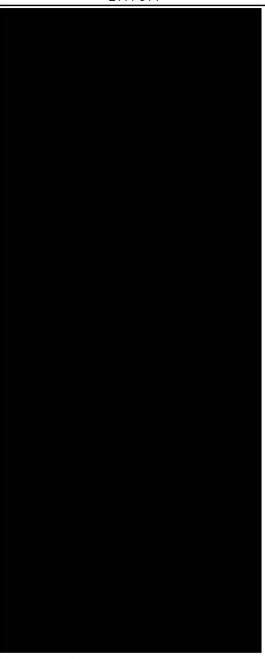
			

Section A7.2.3.2/02

Mobility in at least three soil types and where relevant mobility of metabolites and degradation products







3.2.1 Initial concentration of reference substance

3.3 Testing procedure

3.3.1 Test system

Aged residues of pyriproxyfen were prepared in a loam soil by adding and acetonitrile to soil (250 g dry weight) at a rate of 0.6 mg/kg. The soil was then mixed and split into portions (20 g), which were incubated under aerobic conditions in the dark at 25°C for up to 14 days.

5 Applicant's Summary and Concl	clusion
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5.1 Materials and methods

The metabolism and column leaching behaviour of pyriproxyfen was investigated in a sandy loam soil

The Environmental Protection Agency Pesticide Assessment Guidelines, Subdivision N, Section 163-1 guidelines were followed without significant deviations

5.2 Results and discussion

In the leaching study mass balances were 98.6% AR label) and abel), respectively. Total leached radioactivity was 90.3% AR (label) and 1.0% AR (label). The leachate of consisted mainly of (6.5% AR). 7.6% AR label consisted mainly of and others were each ≤0.81% AR. Pyriproxyfen, In both soil columns the majority of radioactivity was recovered from the 0-3 cm section (88% AR abel, 86% AR label). In the 3-9 cm section recovered radioactivity was 1.4-2.3% AR and was <1% AR in all other sections. Radioactivity in the treated soil layer was fractionated into extractables (43-49% AR) and unextractables (39-42% AR). The extract contained pyriproxyfen (26-35% AR), (7.2-7.4% AR), (1.9-2.0% AR), AR) and others (4.5-8.5% AR). No volatiles were detected and formation of CO₂ was insignificant (≤0.1% AR)

During ageing, pyriproxyfen degraded with a half-life of 7.1-9.4 days (25°C). Identified metabolites were (max. 2% AR), (max. 8.2% AR) and (max. 4.4% AR)

5.3 Conclusion

The results of the aged residue column leaching study with pyriproxyfen clearly demonstrate that the mobility and leaching potential of pyriproxyfen and its metabolites is low. Although a significant proportion of the total was identified in leachate, overall levels were low. This suggests that may have a slight potential to leach to groundwater, but it is not expected to reach groundwater in significant amounts

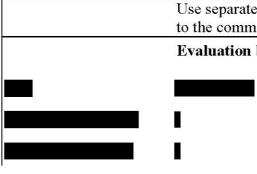
5.3.1 Reliability

5.3.2 Deficiencies

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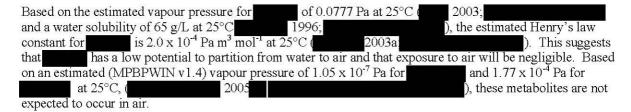
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7.3 Fate and behaviour in air

Based on a vapour pressure of $<1.33 \times 10^{-5}$ Pa at 22.81° C and a water solubility of 0.101 mg/L at 20° C, the calculated Henry's law constant for pyriproxyfen is $<4.23 \times 10^{-2}$ Pa m³ mol⁻¹ at $20-23^{\circ}$ C (see Doc IIIA, section 3.2). These values demonstrate the relatively low volatility of pyriproxyfen and suggest that it has a low potential to partition from water to air. Exposure to air is therefore expected to be insignificant.



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$7.3.1 \quad Phototransformation \ in \ air \ (estimation \ method), including \ identification \ of \ breakdown \ products$

Section A7.3.1/06 Phototransformation in air (estimation method),

including identification of breakdown products

	1 Reference	Offi
1.1 Reference		use (
1.2 Data protection	Yes	
1.2.1 Data owner	Sumitomo Chemical Co., Ltd.	
1.2.3 Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I $$	
	2 Guidelines and Quality Assurance	
2.1 Guideline study		
2.2 GLP		
2.3 Deviations		
	3 Materials and Methods	
3.1 Test material	Not applicable. Calculation only	
3.1.1 Lot/Batch number	Not applicable. Calculation only	
3.1.2 Specification	Not applicable. Calculation only	
3.1.3 Purity	Not applicable. Calculation only	
3.1.4 Further relevant properties	Not applicable. Calculation only	
3.2 Reference substance	Not applicable. Calculation only	
3.2.1 Initial concentration of reference substance	Not applicable. Calculation only	
3.3 Test system	The atmospheric oxidation rate for pyriproxyfen was estimated based on the Atkinson calculation using the Atmospheric Oxidation Program. This estimates the rate constant for the atmospheric gas-phase reaction between photochemically produced hydroxyl radicals and organic chemicals	

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4 Results

4.1 Estimated half-life

The half-life in air based on reaction with hydroxyl radicals (assumed average daylight concentration in the atmosphere 0.6×10^6 OH radicals/cm³) was 6.143 hours (or 0.512 days under environmental conditions with a diurnal cycle of 12 hours). The half-life, recalculated by the CTB during the EU evaluation of pyriproxyfen under 91/414/EEC, using a 24-hour average OH radical concentration of 9.7×10^5 OH radicals/cm³, was 3.8 hours. This is reported in Volume 3, Annex B of the DAR (November 2005)

5 Applicant's Summary and Conclusion

5.1 Materials and methods

The atmospheric oxidation rate for pyriproxyfen was estimated based on the Atkinson calculation using the Atmospheric Oxidation Program

5.2 Results and discussion

The half-life of pyriproxyfen in air based on reaction with hydroxyl radicals (9.7 x 10⁵ OH radicals/cm³; 24 hours) is 3.8 hours

5.3 Conclusion

The estimated atmospheric half-life of pyriproxyfen is 3.8 hours. Pyriproxyfen is therefore not expected to be persistent in air

5.3.1 Reliability

5.3.2 Deficiencies

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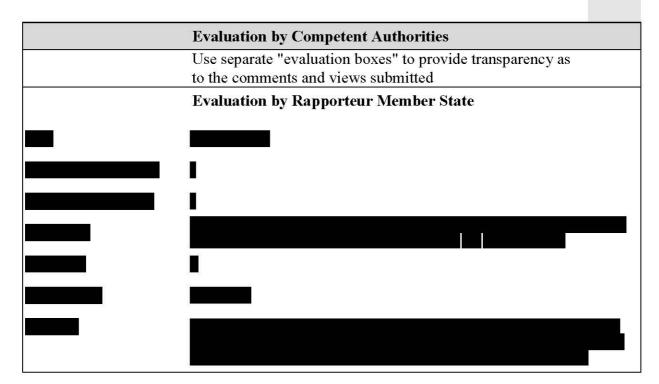
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Section A7.3.1/07 Phototransformation in air (estimation method), including identification of breakdown products

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	1 Reference	Official use only
1.1 Reference		
1.2 Data protection	Yes	
1.2.1 Data owner	Sumitomo Chemical Co., Ltd.	
1.2.3 Criteria for data		
protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I	
	2 Guidelines and Quality Assurance	
2.1 Guideline study		
2.2 GLP		
2.3 Deviations		
	3 Materials and Methods	
3.1 Test material	Not applicable. Calculation only	
3.1.1 Lot/Batch number	Not applicable. Calculation only	
3.1.2 Specification	Not applicable. Calculation only	
3.1.3 Purity	Not applicable. Calculation only	
3.1.4 Further relevant properties	Not applicable. Calculation only	
3.2 Reference substance	Not applicable. Calculation only	
3.2.1 Initial concentration of reference substance	Not applicable. Calculation only	
3.3 Test system	The atmospheric oxidation rate for was estimated based on the Atkinson calculation using the Atmospheric Oxidation Program (AOPWIN v1.90; Meyland and Howard, 1993). This estimates the rate constant for the atmospheric gas-phase reaction between photochemically produced hydroxyl radicals and organic chemicals	
	4 Results	
4.1 Estimated half-life	The half-life in air based on reaction with hydroxyl radicals (assumed average daylight concentration in the atmosphere $0.6 \times 10^6~\rm OH$	

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radicals/cm³) was 23.519 hours (or 1.96 days under environmental conditions with a diurnal cycle of 12 hours). The half-life, recalculated by the CTB during the EU evaluation of pyriproxyfen under 91/414/EEC, using a 24-hour average OH radical concentration of 9.7 x 10⁵ OH radicals/cm³, was 0.6 days. This is reported in Volume 3, Annex B of the DAR (November 2005) **5 Applicant's Summary and Conclusion** The atmospheric oxidation rate for was estimated based on the 5.1 Materials and methods Atkinson calculation using the Atmospheric Oxidation Program The half-life of in air based on reaction with hydroxyl radicals 5.2 Results and discussion (9.7 x 10⁵ OH radicals/cm³; 24 hours) is 0.6 days The estimated atmospheric half-life of is 0.6 days. 5.3 Conclusion therefore not expected to be persistent in air 5.3.1 Reliability 5.3.2 Deficiencies



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7.3.2 Fate and behaviour in air, further studies

No studies available. Further studies are not required, as pyriproxyfen is not intended for use as a fumigant. Sufficient information on the fate and behaviour of pyriproxyfen and its main metabolites in air is provided in sections 7.3 and 7.3.1.

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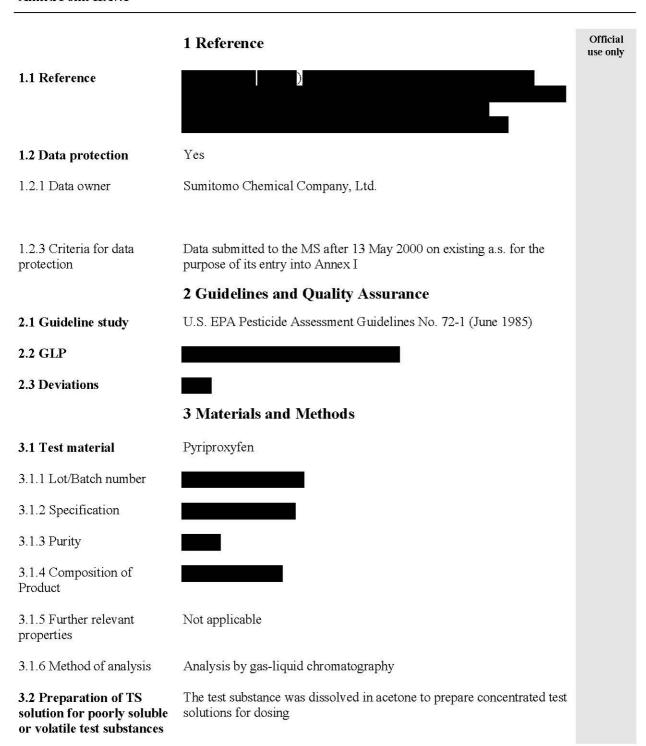
7.4 Effects on Aquatic Organisms

7.4.1 Aquatic toxicity, initial tests

7.4.1.1 Acute toxicity to fish

Section A7.4.1.1/01 Acute toxicity to fish

Annex Point IIA7.1



227 / 514 3.3Reference substance Not applicable 3.3.1 Method of analysis for Not applicable reference substance 3.4 Testing procedure 3.4.1Dilution water Rainbow trout 3.4.2 Test organisms 3.4.3 Test system 3.4.4 Test conditions 3.4.5 Duration of the test 96 hours 3.4.6 Test parameter Mortality 3.4.7 Sampling Sampling interval: start (0 hours) and end (96 hours) of exposure 3.4.8 Monitoring of TS Yes 0 and 96 hours concentration 3.4.9 Statistics Empirical estimate (no effects >50%) 4 Results Two performed 4.1 Limit Test 4.1.1 Concentration 0.01, 0.1, 1, 5 and 10 mg/L 4.1.2 Number/percentage of animals showing adverse effects 4.1.3 Nature of adverse effects 4.2 Results test substance 4.2.1 Initial concentrations of test substance 4.2.2 Actual concentrations Mean measured concentrations were 20.3, 32, 54, 102 and 325 μ g/L. of test substance 4.2.3 Effect data (Mortality)

4.2.4 Concentration /

4.2.5 Other effects

response curve

Not applicable.

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4.3 Results of controls

4.3.1 Number/percentage of animals showing adverse effects

4.3.2 Nature of adverse effects

4.4 Test with reference substance

4.4.1 Concentrations

4.4.2 Results

5 Applicant's Summary and conclusion

5.1 Materials and methods The study was conducted according to U.S. EPA Pesticide Assessment

Guidelines No. 72-1. The test system was flow-through and rainbow

trout were used as the test organisms

5.2 Results and discussion The study was conducted using stock solutions prepared in acetone to

allow testing up to 360 µg/L, the reported limit of water solubility of

pyriproxyfen

 $5.2.1 LC_0$ $102 \mu g/L$

 $5.2.2 \, LC_{50}$ >325 µg/L

 $5.2.3 \, LC_{100}$ >325 µg/L

5.3 Conclusion The result indicates that pyriproxyfen is not acutely toxic to fish at the

reported limit of water solubility

5.3.1 Other Conclusions No other conclusions

5.3.2 Reliability

5.3.3 Deficiencies

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Section A7.4.1.1/02 Acute toxicity to fish

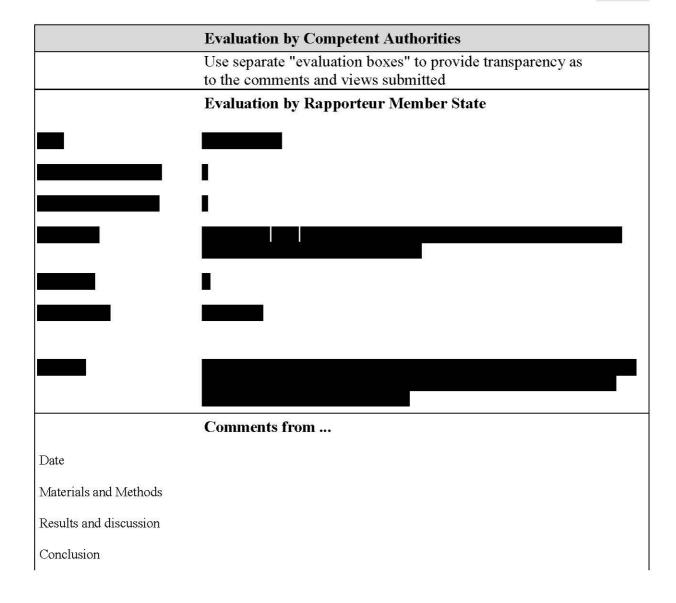
Annex Point IIA7.1



1.2 Data protection	Yes	
1.2.1 Data owner	Sumitomo Chemical Company, Ltd.	
1.2.3 Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I	
	2 Guidelines and Quality Assurance	
2.1 Guideline study	U.S. EPA Pesticide Assessment Guidelines No. 72-1 (June 1985)	
2.2 GLP		
2.3 Deviations		
	3 Materials and Methods	
3.1 Test material	Pyriproxyfen	
3.1.1 Lot/Batch number		
3.1.2 Specification		
3.1.3 Purity		
3.1.4 Composition of Product		
3.1.5 Further relevant properties		
3.1.6 Method of analysis	Analysis by gas-liquid chromatography	
3.2 Preparation of TS solution for poorly soluble or volatile test substances	The test substance was dissolved in acetone to prepare concentrated test solutions for dosing	
3.3 Reference substance	Not applicable	
3.3.1 Method of analysis for reference substance	Not applicable	
3.4 Testing procedure		
3.4.1 Dilution water		
3.4.2 Test organisms	Bluegill sunfish details are given in Table A7.4.1.1-10	
3.4.3 Test system		
3.4.4 Test conditions		

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3.4.5 Duration of the test	96 hours	
3.4.6 Test parameter	Mortality	
3.4.7 Sampling	Sampling interval: start (0 hours) and end (96 hours) of exposure	
3.4.8 Monitoring of TS concentration	Yes 0 and 96 hours	
3.4.9 Statistics		
	4 Results	
4.1 Limit Test	Performed	
4.1.1 Concentration	0.5 and 5.0 mg/L	
4.1.2 Number/ percentage of animals showing adverse effects		
4.1.3 Nature of adverse effects		
4.2 Results test substance		
4.2.1 Initial concentrations of test substance		
4.2.2 Actual concentrations of test substance		
4.2.3 Effect data (Mortality)		
4.2.4 Concentration / response curve		
4.2.5 Other effects		
4.3 Results of controls		
4.3.1 Number/ percentage of animals showing adverse effects		
4.3.2 Nature of adverse effects		
4.4 Test with reference substance		
4.4.1 Concentrations		
4.4.2 Results		
	5 Applicant's Summary and conclusion	
5.1 Materials and methods	The study was conducted according to U.S. EPA Pesticide Assessn	nent

235 / 514 Guidelines No. 72-1. The test system was flow-through and bluegill sunfish were used as the test organisms 5.2 Results and discussion The study was conducted using stock solutions prepared in acetone to allow testing up to 360 $\mu g/L$, the reported limit of water solubility of pyriproxyfen 5.2.1 LC₀ $270 \mu g/L$ $5.2.2 \, LC_{50}$ >270 μ g/L $5.2.3\ LC_{100}$ >270 μg/L 5.3 Conclusion The result indicates that pyriproxyfen is not acutely toxic to fish at the reported limit of water solubility No other conclusions 5.3.1 Other Conclusions 5.3.2 Reliability 5.3.3 Deficiencies



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2007 014
Reliability
Acceptability
Remarks

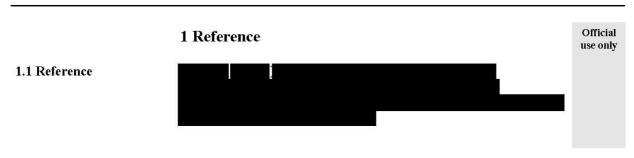
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Section A7.4.1.1/03 Acute toxicity to fish

Annex Point IIA7.1



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1.2 Data protection	Yes
1.2.1 Data owner	Sumitomo Chemical Company, Ltd.
1.2.3 Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing a.s. for the purpose of its entry into Annex I
	2 Guidelines and Quality Assurance
2.1 Guideline study	OECD 203 (17 July 1992) - equivalent to EEC C.1
2.2 GLP	
2.3 Deviations	
	3 Materials and Methods
3.1 Test material	
3.1.1 Lot/Batch number	
3.1.2 Specification	
3.1.3 Purity	
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	
3.3 Reference substance	
3.3.1 Method of analysis for reference substance	
3.4 Testing procedure	
3.4.1 Dilution water	
3.4.2 Test organisms	Rainbow trout (Oncorhynchus mykiss).
3.4.3 Test system	
3.4.4 Test conditions	
3.4.5 Duration of the test	96 hours

Pyriproxyfen; CAS number: 95737-68-1 January 2012 RMS: NL Doc IIIA 240 / 514 3.4.6 Test parameter Mortality Sampling interval: start (0 hours) and end (96 hours) of exposure 3.4.7 Sampling 3.4.8 Monitoring of TS concentration 3.4.9 Statistics 4 Results Performed 4.1 Limit Test 4.1.1 Concentration 10 and 100 mg/L 4.1.2 Number/ percentage of animals showing adverse effects 4.1.3 Nature of adverse effects 4.2 Results test substance 4.2.1 Initial concentrations of test substance 4.2.2 Actual concentrations of test substance 4.2.3 Effect data (Mortality) 4.2.4 Concentration / response curve 4.2.5 Other effects 4.3 Results of controls 4.3.1 Number/ percentage of animals showing adverse effects 4.3.2 Nature of adverse effects 4.4 Test with reference substance

4.4.1 Concentrations

4.4.2 Results

5 Applicant's Summary and conclusion

5.1 Materials and methods

The study was conducted according to OECD guideline 203. The test system was static and rainbow trout were used as the test organisms