3.1.7 Specific chemical analysis	Not applicable

3.2 Reference substance

[redacted]

[redacted]

[redacted]

3.2.1 Initial concentration of reference substance [redacted]

3.3 Testing procedure

3.3.1 Inoculum / test species [redacted]

3.3.2 Test system [redacted]

[redacted]

[redacted]

3.3.3 Test conditions	The water/sediment systems were sealed and incubated at 25 ± 2°C in the dark[redacted]
3.3.4 Method of preparation of test solution	[redacted]
3.3.5 Initial TS concentration	[redacted]
3.3.6 Duration of test	[redacted]
3.3.7 Analytical parameter	[redacted]
3.3.8 Sampling	Duplicate flasks were analysed at 0, 7, 14, 30, 59, 91, 120, 175, 268 and 363 days after treatment[redacted] and at 0, 7, 14, 32, 61, 91, 120, 180, 273 and 368 days after treatment[redacted]
3.3.9 Intermediates/ degradation products	[redacted]
3.3.10 Controls	Two samples were used as untreated controls. However, there was no need for these samples to be analysed
3.3.11 Statistics	[redacted]

4 Results

4.1Degradation of test substance

4.1.1 Degradation of TS in abiotic control

[redacted]

4.1.2 Degradation

[redacted]

[redacted]

4.1.3 Graph

[redacted]

4.1.4 Other observations

Not applicable

4.1.5 Degradation of reference substance

Not applicable

4.1.6 Intermediates/ degradation products

[redacted]

5 Applicant's Summary and Conclusion

5.1 Materials and methods

The anaerobic metabolism and degradation of pyriproxyfen was studied in water and sediment [redacted] or 363 and 368 days

The Environmental Protection Agency Pesticide Assessment Guidelines, Subdivision N, Section 162-3 guidelines were followed without significant deviations

5.2 Results and discussion

[redacted]

components ≤4.2% AR)

[redacted]

The test material specific properties (e.g. solubility, stability, adsorption behaviour, volatility) are not expected to have any impact on the results of this study

5.3 Conclusion

Under anaerobic aquatic conditions, pyriproxyfen degraded in the total water-sediment system with a mean half-life of 554 days (r^2 ≥0.79). Pyriproxyfen dissipated from the sediment with a mean half-life of 196 days (r^2 ≥0.89). The only major metabolite (>10% AR and/or 2x>5% AR and/or increasing trend) [redacted] (max. 16.4% in water). Minor identified metabolites [redacted] (≤5.2% AR in any compartment). Amounts of CO_2 were insignificant (<0.1% AR). [redacted]

The results of this study are considered to be indicative of the behaviour of pyriproxyfen in natural anaerobic aquatic environments (flooded soils, surface water, sediments etc)

5.3.1 Reliability [redacted]

5.3.2 Deficiencies [redacted]

Evaluation by Competent Authorities
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
Evaluation by Rapporteur Member State
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Comments from ...

Date

Materials and Methods

Results and discussion

Conclusion

Reliability

Acceptability

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7.1.2.2 Biodegradation in freshwater

7.1.2.2.1 Aerobic aquatic degradation study

No study available. Sufficient information on the aerobic aquatic degradation of pyriproxyfen is provided in the water-sediment degradation studies (section 7.1.2.2.2).

Evaluation by Competent Authorities	
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Evaluation by Rapporteur Member State	
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Comments from ...	
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Materials and Methods	
Results and discussion	
Conclusion	
Reliability	
Acceptability	
Remarks	

7.1.2.2.2 Water/sediment degradation study

Section A7.1.2.2.2/01 Water/sediment degradation study

Official use only

1 Reference

1.1 Reference [redacted]

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 Yes

EC Directive 95/36/EC, Active substances, Section 7.2.1.3.2 (July 1995)
SETAC Procedures for assessing the Environmental Fate and Ecotoxicity of Pesticides, Section 8.2 (March 1995)

2.2 GLP Yes

2.3 Deviations [redacted]

3 Materials and Methods

3.1 Test material [redacted]

3.1.1 Lot/Batch number [redacted]

3.1.2 Specification [redacted]

3.1.3 Purity [redacted]

3.1.4 Further relevant properties: Not applicable

3.2 Reference substance [redacted]

[redacted]

[redacted]

3.2.1 Initial concentration of reference substance	Not specified

3.3 Testing procedure

3.3.1 Test system	The behaviour of pyriproxyfen in water-sediment systems was studied with sediment and natural water [redacted]

[redacted]

3.3.2 Sampling

Single flasks were taken for analysis at 0, 1, 2, 3, 7, 14, 50 and 100 days after treatment

3.3.3 Analysis

[redacted]

4 Results

4.1 Distribution of radioactivity

[redacted]

4.2 Metabolites identified

[redacted]

[redacted]

4.3 Dissipation rate

[redacted]

[redacted]

5 Applicant's Summary and Conclusion

5.1 Materials and methods

The behaviour of pyriproxyfen in water-sediment systems was studied with sediment and natural water [redacted]

The EC Directive 95/36/EC, Active substances, Section 7.2.1.3.2 (July 1995) and SETAC Procedures for assessing the Environmental Fate and Ecotoxicity of Pesticides, Section 8.2 (March 1995) guidelines were followed without significant deviations

5.2 Results and discussion

[redacted]

[redacted]

5.3 Conclusion

In two water-sediment systems incubated at 20°C in the dark pyriproxyfen degraded in the total system with average half-lives of 5.4 days (r^2 ≥0.98) and 7.8 days (r^2 ≥0.76) and dissipated from the water and sediment with average half-lives of 1.7 and 1.4 days (r^2 ≥0.97 and ≥0.94) and 30.6 and 37.7 days (r^2 ≥0.78 and ≥0.93) respectively. CO_2 was a major degradation product (max. 53% after 100 days). The main metabolites [redacted]

5.3.1 Reliability [redacted]

5.3.2 Deficiencies [redacted]

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Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
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Section A7.1.2.2.2/02 Water/sediment degradation study

Official use only

1 Reference

1.1 Reference	[redacted]2000b[redacted]
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	Yes EC Directive 95/36/EC, Active substances, Section 7.2.1.3.2 (July 1995) SETAC Procedures for assessing the Environmental Fate and Ecotoxicity of Pesticides, Section 8.2 (March 1995)
2.2 GLP	Yes
2.3 Deviations	[redacted]

3 Materials and Methods

3.1 Test material	[redacted]
3.1.1 Lot/Batch number	[redacted]
3.1.2 Specification	[redacted]
3.1.3 Purity	[redacted]
3.1.4 Further relevant properties	Not applicable
3.2 Reference substance	[redacted]

[redacted]

[redacted]

3.2.1 Initial concentration of reference substance [redacted]

3.3 Testing procedure

3.3.1 Test system

The behaviour [redacted] in water-sediment systems was studied with sediment and natural water [redacted]

3.3.2 Sampling

Single flasks were taken for analysis at 0, 1, 2, 3, 7, 14, 50 and 76 days [redacted] and 0, 3, 7, 13, 30, 50, 76 and 100 days [redacted] after

treatment

3.3.3 Analysis

[redacted]

4 Results

4.1 Distribution of radioactivity

[redacted]

4.2 Metabolites identified

[redacted]

[redacted]

4.3 Dissipation rate

[redacted]

5 Applicant's Summary and Conclusion

5.1 Materials and methods

The behaviour [redacted] in water-sediment systems was studied with sediment and natural water [redacted]

The EC Directive 95/36/EC, Active substances, Section 7.2.1.3.2 (July 1995) and SETAC Procedures for assessing the Environmental Fate and Ecotoxicity of Pesticides, Section 8.2 (March 1995) guidelines were followed without significant deviations

5.2 Results and discussion

[redacted]

[redacted]

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5.3 Conclusion

In two water-sediment systems treated [redacted] and incubated at 20°C in the dark, 4'-OH-Pyr degraded in the total system with half-lives ranging from 0.8-54.1 days and dissipated from water and sediment with half-lives of 0.4-0.7 days and 17.3->69 days, respectively. CO_2 was a major degradation product (max. 26-41%). The main metabolite [redacted] identified as a minor metabolite. Half-lives [redacted] were ≤4 days in water and 65.6 days in sediment

In two water-sediment systems treated [redacted] and incubated at 20°C in the dark, [redacted] degraded in the total system with half-lives of 11.6-62.9 days and dissipated from water and sediment with half-lives of 9.1-33.9 days and 17-38.3 days, respectively. CO_2 was a major degradation product (max. 49-76% AR). No major metabolites were observed in any system or compartment

5.3.1 Reliability [redacted]

5.3.2 Deficiencies [redacted]

Evaluation by Competent Authorities
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
Evaluation by Rapporteur Member State
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Comments from ...
Date
Materials and Methods
Results and discussion
Conclusion
Reliability
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Section A7.1.2.2.2/03 Water/sediment degradation study

Official use only

1 Reference

1.1 Reference

[redacted] 2003) [redacted]

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

This is a higher tier study and was therefore not conducted to any specific guidelines

2.2 GLP

Yes

2.3 Deviations

[redacted]

3 Materials and Methods

3.1 Test material

[redacted]

3.1.1 Lot/Batch number

[redacted]

3.1.2 Specification

[redacted]

3.1.3 Purity

[redacted]

3.1.4 Further relevant properties

Not applicable

3.2 Reference substance

[redacted]

[redacted]

3.2.1 Initial concentration of reference substance [redacted]

3.3 Testing procedure

3.3.1 Test system

The behaviour of pyriproxyfen in a water-sediment system in the light was studied with sediment and natural water [redacted]

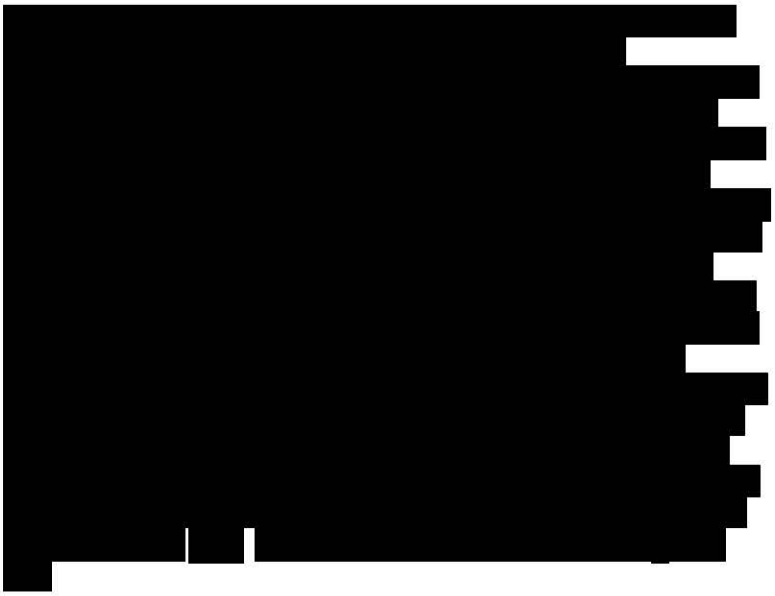
3.3.2 Sampling

Single flasks were taken for analysis at 0, 1, 2, 3, 7, 14 and 30 days after treatment

3.3.3 Analysis

4 Results

4.1 Distribution of radioactivity



4.2 Metabolites identified

4.3 Dissipation rate

[redacted]

5 Applicant's Summary and Conclusion

5.1 Materials and methods

The behaviour of pyriproxyfen and its metabolites in a water-sediment system in the light was studied with sediment and natural water from [redacted]

As this is a higher tier study, which was conducted to investigate the fate and behaviour of PYPA, a main metabolite of pyriproxyfen identified in the aqueous photolysis study, it was not conducted to any specific guidelines

5.2 Results and discussion

[redacted]

5.3 Conclusion

In a water-sediment system incubated at 20°C under 12 hour light/dark

cycles, or in the dark, pyriproxyfen degraded in the total system with half-lives of 2.7 days (irradiated system) and 20.4 days (dark) and dissipated from the water with half-lives of 1.1 days (irradiated system) and 5.9 days (dark). No half-lives could be estimated for the dissipation of pyriproxyfen from sediment. [redacted] The study therefore clearly demonstrates that accumulation [redacted] in water-sediment under light conditions is unlikely to occur

5.3.1 Reliability [redacted]

5.3.2 Deficiencies [redacted]

Evaluation by Competent Authorities
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
Evaluation by Rapporteur Member State
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Comments from ...
Date
Materials and Methods
Results and discussion
Conclusion
Reliability
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Remarks

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7.1.3 Adsorption/desorption screening test

Section A7.1.3/01 Adsorption / Desorption screening test

Annex Point IIA7.7

		Official use only
	1 Reference	
1.1 Reference	[redacted] (1991) [redacted]	
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	Yes Environmental Protection Agency Pesticide Assessment Guidelines, Subdivision N, Section 163-1	
2.2 GLP	Yes	
2.3 Deviations	[redacted]	
	3 Materials and Methods	
3.1 Test material	[redacted]	
3.1.1 Lot/Batch number	[redacted]	
3.1.2 Specification	[redacted]	
3.1.3 Purity	[redacted]	
3.1.4 Further relevant properties	Not applicable	
3.1.5 Method of analysis	[redacted]	
3.2 Degradation products	[redacted]	

3.2.1 Method of analysis for degradation products

3.3 Reference substance

3.3.1 Method of analysis for reference substance

3.4 Soil types

3.5 Testing procedure

3.5.1 Test system

Adsorption and desorption of pyriproxyfen was studied using the batch equilibrium method (based on EPA guideline 163-1), to determine the K_f and K_{oc} values on five representative agricultural soils and one lake sediment.

[redacted]

3.5.2 Test solution and Test conditions

[redacted]

3.6 Test performance

3.6.1 Preliminary test

Yes. [redacted]

3.6.2 Screening test: Adsorption

Yes

3.6.3 Screening test: Desorption

[redacted]

3.6.4 HPLC-method

[redacted]

3.6.5 Other test

Not applicable

4 Results

4.1 Preliminary test

[redacted]

[redacted]

4.2 Screening test: Adsorption

[redacted]

No pH dependency was observed

4.3 Screening test: Desorption

[redacted]

No pH dependency was observed

4.4 Calculations

4.4.1 Ka , Kd

[redacted]

4.4.2 Ka_{oc} , Kd_{oc}

[redacted]

4.5 Degradation product(s) No degradation products were detected. Pyriproxyfen was stable throughout the study

5 Applicant's Summary and Conclusion

5.1 Materials and methods Adsorption and desorption of pyriproxyfen was studied using the batch equilibrium method to determine the K_f and K_{oc} values [redacted] on five representative agricultural soils and one lake sediment

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

5.2 Results and discussion The adsorption and desorption of pyriproxyfen was well described by the Freundlich equation. The Freundlich coefficients (K_f) for adsorption and desorption [redacted] ranged from 11.7-324 and 10.0-457, respectively. The adsorption and desorption coefficients (K_{oc}) based on organic carbon content ranged from 4980-34200 and 4260-33400, respectively. No pH dependency was observed. No degradation products were detected. 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

5.2.1 Adsorbed a.s. [%]	The range of values for the mean percentage of adsorption for the five test soils and one sediment is summarised below: [redacted] Sediment = 67.7-73.8% Sand = 78.8-82.2% Sandy Loam = 94.9-96.4% [redacted] Silt Loam = 94.1-97.5% Silty Clay Loam = 95.9-98.0% [redacted] Clay Loam = 96.5-98.3%
5.2.2 K_a	11.7 - 324
5.2.3 K_d	10.0 - 457
5.2.4 Ka_{oc}	4980 - 34200
5.2.5 Ka/Kd	Not available
5.2.6 Degradation products (% of a.s.)	No degradation products were detected. Pyriproxyfen was stable throughout the study
5.3 Conclusion	Pyriproxyfen can be classified as slightly mobile to immobile according to the McCall mobility classification. From these findings it can be concluded that pyriproxyfen is not expected to be mobile and will not leach through agricultural soils to groundwater
5.3.1 Reliability	[redacted]
5.3.2 Deficiencies	[redacted]

Evaluation by Competent Authorities
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
Evaluation by Rapporteur Member State
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Comments from ...

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Acceptability

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