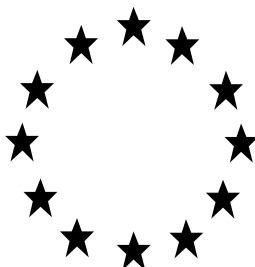


Competent Authority Report



DOCUMENT III-A

Study Summaries Active Substance




Addendum to Section 7

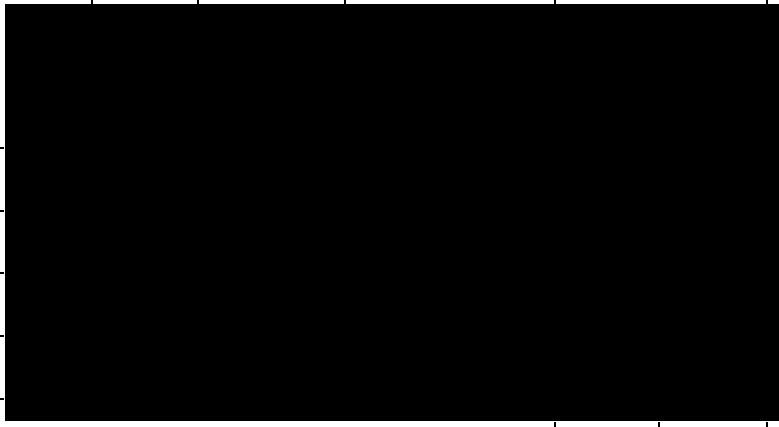
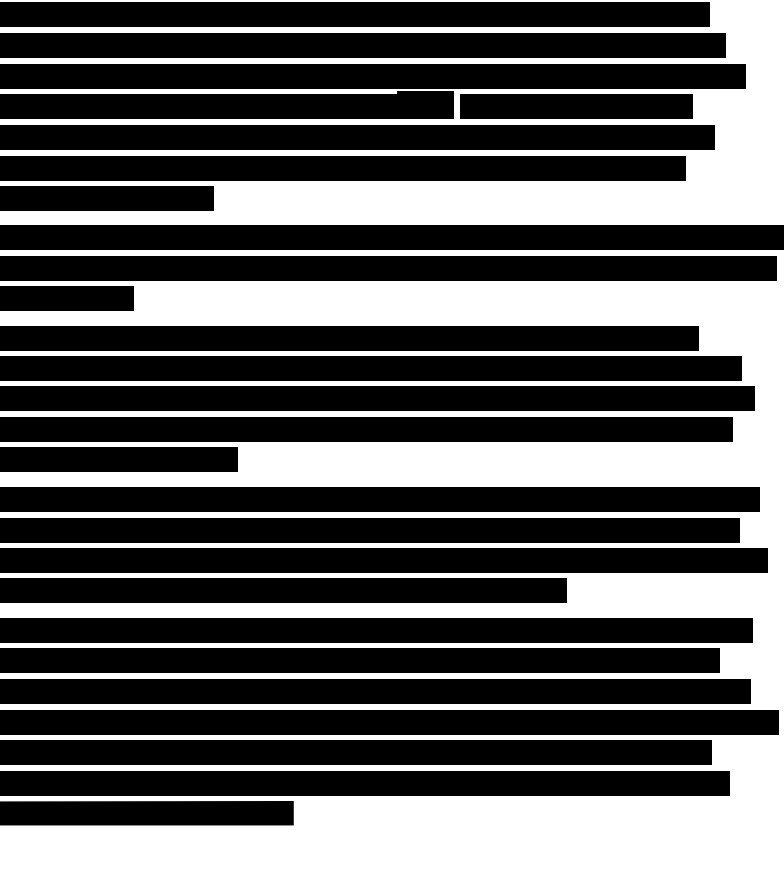
Rapporteur Member State: Italy

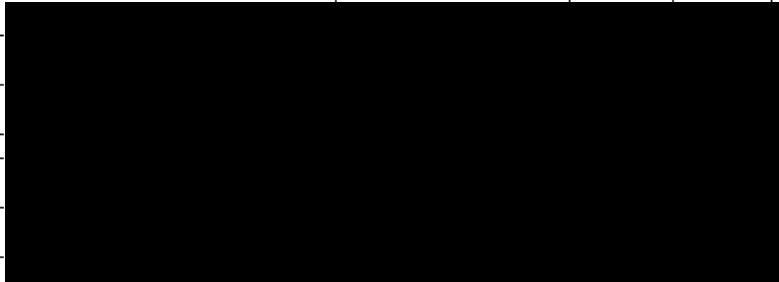

April 2021



<p>Section A7.2.2.1 BPD Annex Point IIIA, VII. 4, XII. 1.1, XII.1.4</p>	<p>Aerobic degradation and metabolism in soil</p>	
<p>3.2.2 Method of analysis for degradation products</p>	<p>[Redacted]</p>	
<p>3.3 Soil types</p>	<p>See table A7.2.1-2.</p>	
<p>3.4 Testing procedure</p>	<p>-</p>	
<p>3.4.1 Test system</p>	<p>[Redacted]</p>	
<p>3.4.2 Test conditions</p>	<p>[Redacted]</p>	
<p>3.5 Test performance</p>	<p>-</p>	
<p>3.5.1 Preliminary test</p>	<p>n/a</p>	
<p>3.5.2 Dose rates</p>	<p>[Redacted]</p>	

<p>Section A7.2.2.1 BPD Annex Point IIIA, VII. 4, XII. 1.1, XII.1.4</p>	<p>Aerobic degradation and metabolism in soil</p>	
	<p>[REDACTED]</p>	
<p>3.5.3 Limit of detection</p>	<p>[REDACTED]</p>	
	<p>4 RESULTS</p>	
<p>4.1 Preliminary test</p>	<p>n/a</p>	
<p>4.2 Extractable residues</p>	<p>[REDACTED]</p>	

Section A7.2.2.1 BPD Annex Point IIIA, VII. 4, XII. 1.1, XII.1.4	Aerobic degradation and metabolism in soil	
		
4.4 Mass balance (recovery of AR)		
4.5 Degradation rate		

Section A7.2.2.1 BPD Annex Point IIIA, VII. 4, XII. 1.1, XII.1.4	Aerobic degradation and metabolism in soil	
		
4.6 Degradation product(s)		

<p>Section A7.2.2.1 BPD Annex Point IIIA, VII. 4, XII. 1.1, XII.1.4</p>	<p>Aerobic degradation and metabolism in soil</p>	
	 <p>*) Secondary amine</p> 	

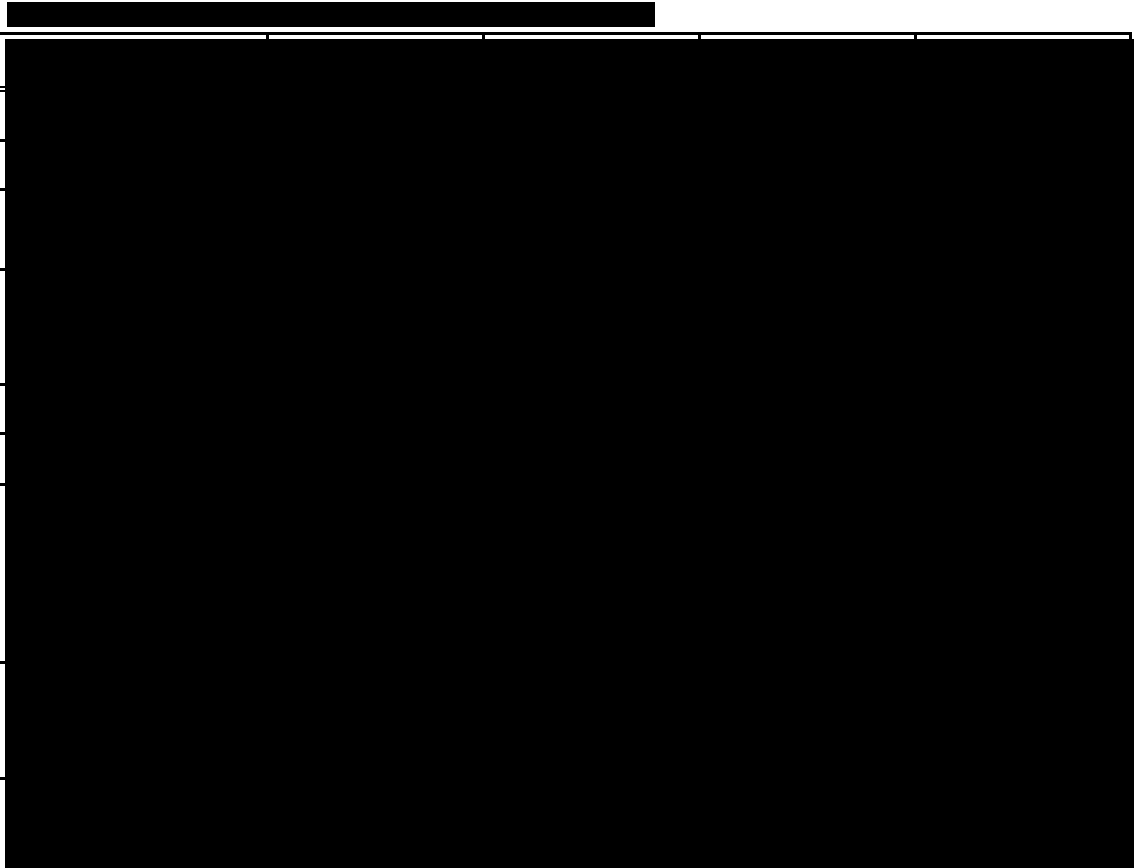
Section A7.2.2.1 BPD Annex Point IIIA, VII. 4, XII. 1.1, XII.1.4	Aerobic degradation and metabolism in soil	
	 	

Section A7.2.2.1 BPD Annex Point IIIA, VII. 4, XII. 1.1, XII.1.4	Aerobic degradation and metabolism in soil	
	<p>[Redacted text block containing multiple paragraphs of blacked-out content]</p>	

<p>Section A7.2.2.1 BPD Annex Point IIIA, VII. 4, XII. 1.1, XII.1.4</p>	<p>Aerobic degradation and metabolism in soil</p>	
	<p>[REDACTED]</p>	
<p>5.2 Results and discussion</p>	<p>[REDACTED]</p>	
<p>5.2.1 Degradation products (% of AR.)</p>	<p>[REDACTED]</p>	
<p>5.3 Conclusion</p>	<p>[N-methyl-14C]Bardap 26 degraded under aerobic laboratory conditions, with a typical half-life of 14.6, 10.8, 16.2 and 28.2 days in soil extracts for the soils Lufa 2.1, Lufa 2.2, Lufa 2.3 and Lufa 2.4, respectively. Metabolite M1a reached up to 29.4% and 12.7% AR in the soils Lufa 2.1 and Lufa 2.2, respectively. Metabolites H6 and H10 were observed at higher than 5% AR but less than 10% AR during the study. H6 was identified but it was not possible to identify H10. Up to 12 minor transformation products occurred during the incubation</p>	



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A second large table, also completely redacted with a solid black fill. Like the first table, its structure is visible through the border, showing a header row and approximately 10 columns. The content is entirely hidden.

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Table A7.2.1-13: Characterisation of the extractable radioactivity in % of the applied radioactivity (AR) of [N-methyl-¹⁴C]Bardap 26 in the Lufa 2.4 soil system

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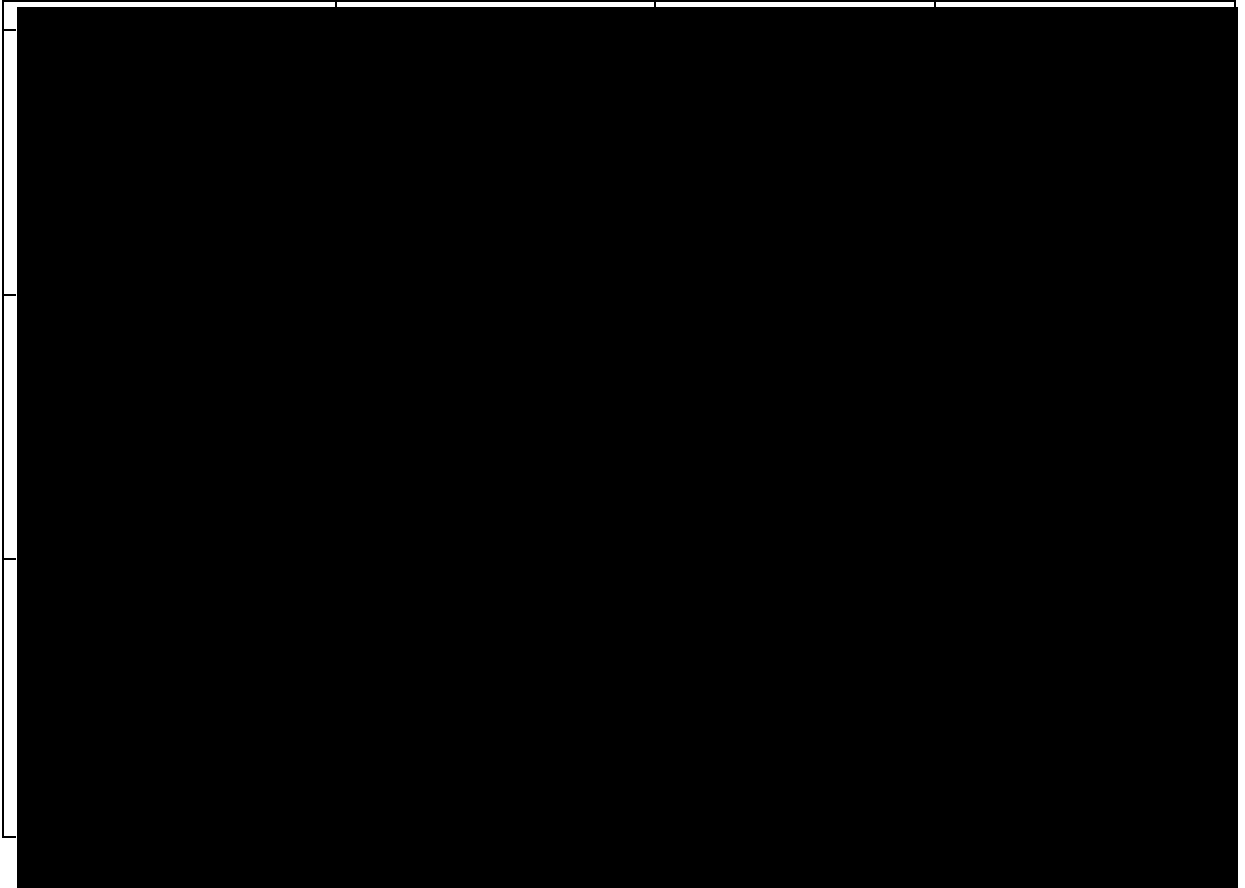
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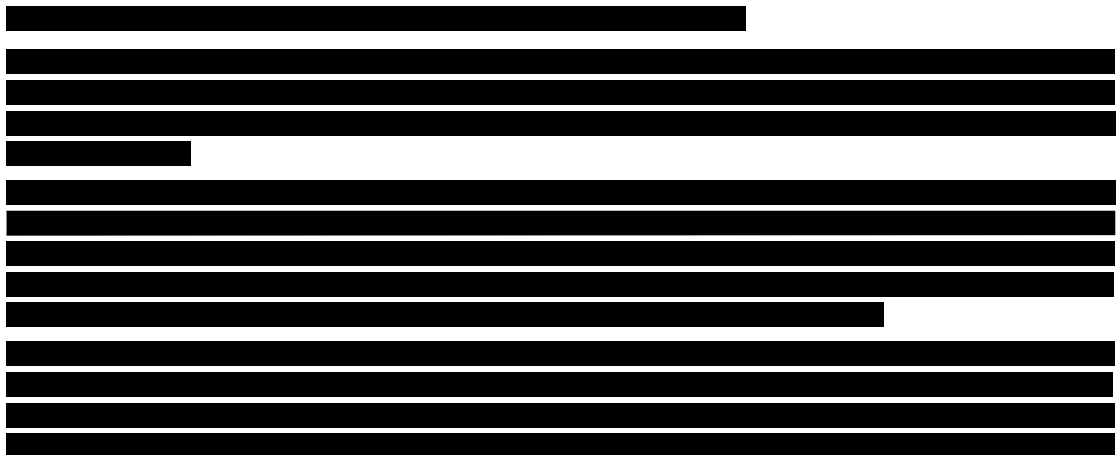
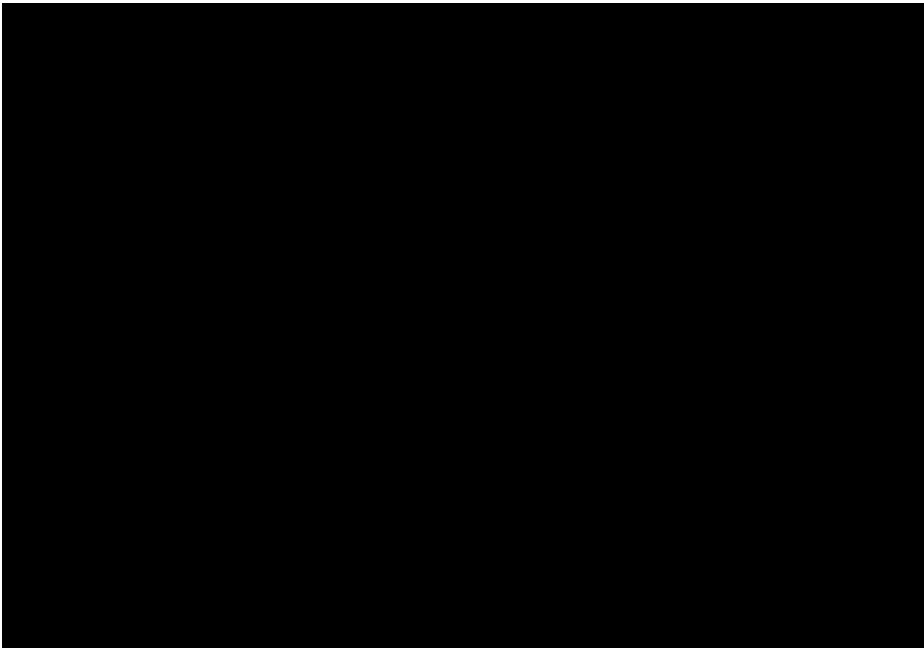
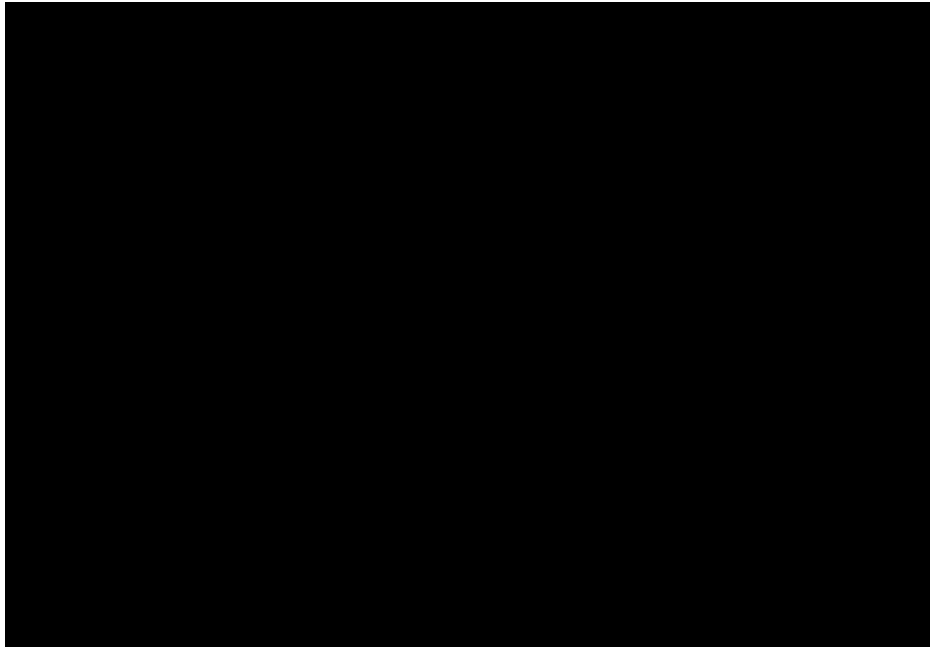


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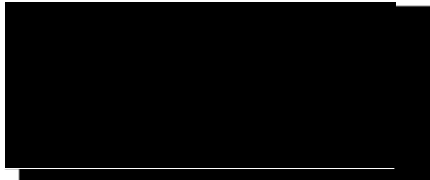

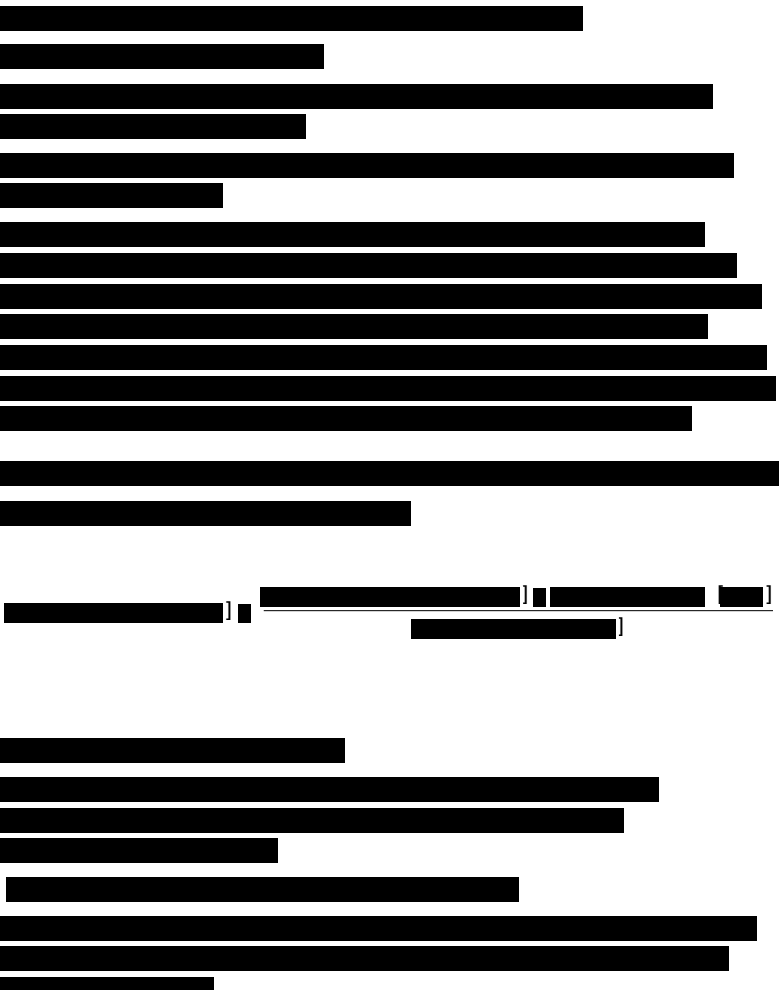
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Conclusion by WG: the DT50 value (geometric mean of the 4 soils investigated) is 31 days at 12°C.



Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
	6 REFERENCE	Official use only
6.1 Reference	<p>██████████ [N-methyl-14C] Bardap 26 Aerobic Degradation and Metabolism in two Water/Sediment Systems, ██████████ ██████████</p> <p>██████████ Report Amendment 1, [N-methyl-14C] Bardap 26 Aerobic Degradation and Metabolism in two Water/Sediment Systems, ██████████ ██████████</p> <p>██████████ Bardap 26 – Kinetic Modelling Evaluation of Data from a Water Sediment Study for Persistence Endpoints at Level PI, ██████████</p> <p>██████████ (2019c). Bardap 26 – Summary of Soil and Aquatic System Degradation Data in a Regulatory Context. ██████████ ██████████.</p>	
6.2 Data protection	Yes	
6.2.1 Data owner	Lonza Cologne GmbH	
6.2.2 Criteria for data protection	Article 60 of Regulation 528/2012, on data protection periods for data submitted for the purposes of Directive 98/8/EC or Regulation 528/2012.	
	7 GUIDELINES AND QUALITY ASSURANCE	
7.1 Guideline study	OECD 308; Aerobic and Anaerobic Transformation in Aquatic Sediment Systems	
7.2 GLP	Yes	
7.3 Deviations	No	
	8 MATERIALS AND METHODS	
8.1 Test material	Common name: [N-methyl-14C]Bardap 26 Chemical name: N,N –Didecyl – N- (¹⁴ C) methyl- N-(oxyethyl) ammonium propionate	
8.1.1 Lot/Batch number	██████████	
8.1.2 Purity	██████████	
8.1.3 Further relevant properties	<p>██████████</p> <p>████████████████████</p> <p>████████████████████</p> <p>████████████████████</p>	

<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
<p>8.1.4 Position of radiolabel</p>		
<p>8.1.5 Method of analysis (of the radiolabelled test item)</p>		
<p>8.2 Analysis of test item and degradation products in study</p>	<p>-</p>	
<p>8.2.1 Method of analysis for test item</p>		




Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
	<p>[Redacted content]</p>	

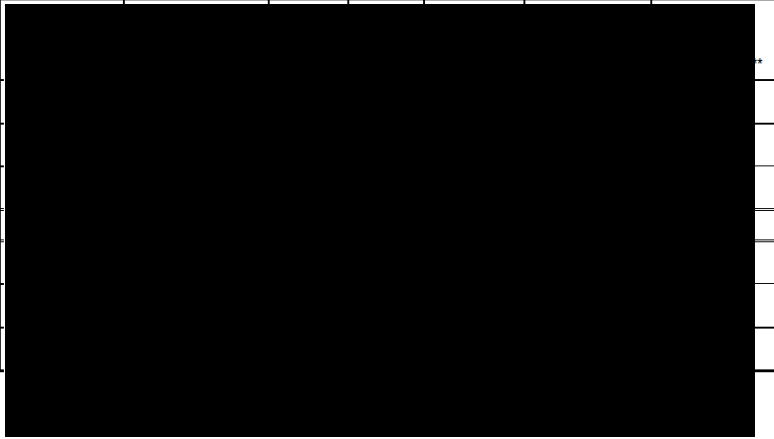

<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
	<p>[Redacted content]</p>	
<p>8.4 Test performance</p>	<p>-</p>	
<p>8.4.1 Preliminary test</p>	<p>n/a</p>	
<p>8.4.2 Dose rates</p>	<p>[Redacted content]</p>	

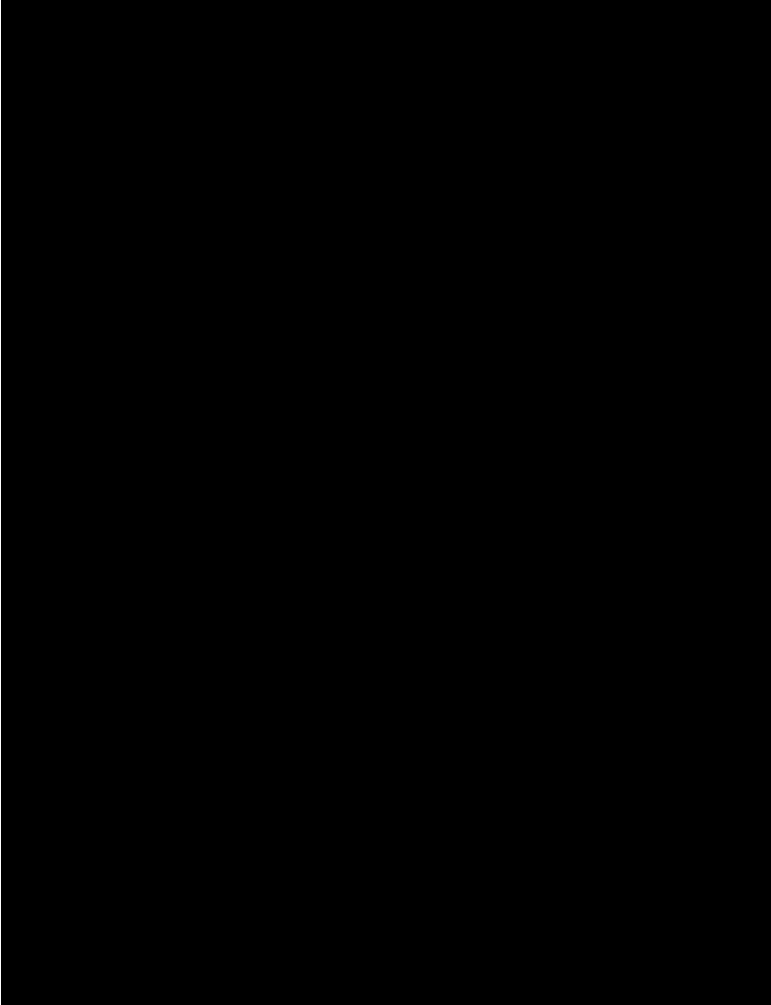

<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
	<p>[Redacted text block]</p>	
<p>8.4.3 Limit of detection</p>	<p>[Redacted text block]</p>	
	<p>9 RESULTS</p>	
<p>9.1 Preliminary test</p>	<p>n/a</p>	
<p>9.2 Distribution of radioactivity in water-sediment systems</p>	<p>[Redacted text block]</p>	

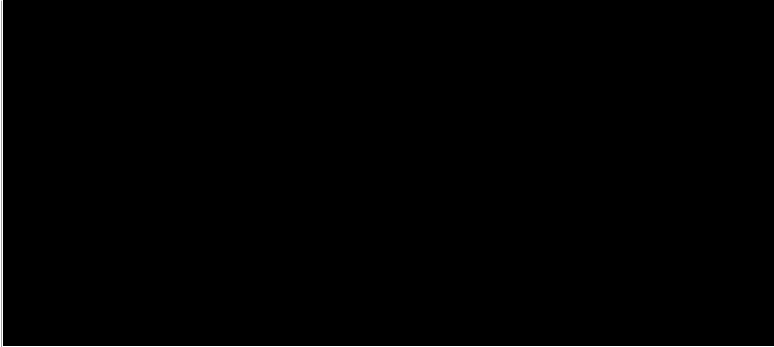

<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
	 <p>[Redacted]</p>	
<p>9.3 Characterisation of radioactivity in water-sediment systems</p>	<p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p> <p>[Redacted]</p>  <p>[Redacted]</p>	

Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
	<p>[Redacted text block]</p>	

Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
	 <p>[Redacted text]</p>  <p>[Redacted text]</p>	
9.4 Mass balance (recovery of AR)	 <p>[Redacted text]</p>	

Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
9.5 Degradation rate	<p>[Redacted text]</p>  <p>[Redacted text]</p>  <p>S</p>	

<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
<p>Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1</p>	<p>Aerobic Degradation and Metabolism in two Water/Sediment Systems</p>	
	<p>on the molecular structure. See table A7.1.2.2.2-15 for details of the metabolite %AR in the water phase.</p> <p>The following metabolic pathway is proposed by the results of the study:</p> 	
	<p>10 APPLICANT'S SUMMARY AND CONCLUSION</p>	
<p>10.1 Materials and methods</p>		

Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
	 	

Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
	<p>[Redacted content]</p>	

Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
	<p>[Redacted text block]</p>	
10.2 Results and discussion	<p>[Redacted text block]</p>	

Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
Section A7.1.2.2.2 BPD Annex Point IIIA, XII. 2.1	Aerobic Degradation and Metabolism in two Water/Sediment Systems	
	<p>[Redacted text block]</p>	
10.2.1 Degradation products (% of AR.)	<p>[Redacted text block]</p>	

[Redacted text block]

[REDACTED]

%AR	[REDACTED]								
	[REDACTED]								
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

[REDACTED]

[REDACTED]

%AR	[REDACTED]							
	[REDACTED]							
	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

n/a: not applicable

[REDACTED]

%AR	[REDACTED]
	[REDACTED]

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	█	█	█	█	█	█	█	█	█
	█	█	█	█	█	█	█	█	█

* Replicate not used for evaluation/kinetic calculations, total recovery too low

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Section 7.4.3.4 **Effects on reproduction and growth rate with an**
Annex Point IIIA XIII 2.4 **invertebrate species**

13.3.1 Method of analysis for reference substance [Redacted]

13.4 Testing procedure

13.4.1 Dilution water [Redacted]

13.4.2 Test organisms [Redacted]

13.4.3 Handling of offspring [Redacted]

13.4.4 Test system [Redacted]

13.4.5 Test conditions

13.4.6 Duration of the test [Redacted]

13.4.7 Test parameter [Redacted]

13.4.8 Examination / Sampling [Redacted]

13.4.9 Monitoring of TS concentration [Redacted]

13.4.10 Statistics [Redacted]

14 RESULTS

14.1 Range finding test [Redacted]

14.1.1 Concentrations [Redacted]

Section 7.4.3.4 **Effects on reproduction and growth rate with an**
Annex Point IIIA XIII 2.4 **invertebrate species**

14.1.2 Number/
percentage of
animals showing
adverse effects

[Redacted]

[Redacted]

[Redacted]

14.1.3 Nature of adverse
effects

[Redacted]

**14.2 Results test
substance**

[Redacted]

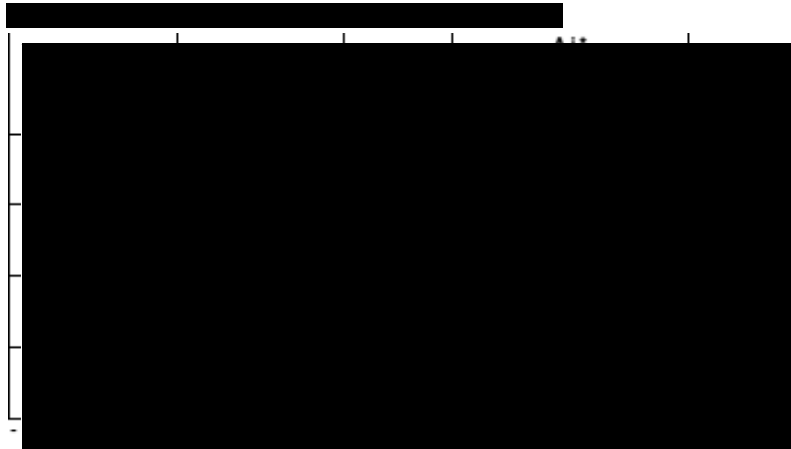
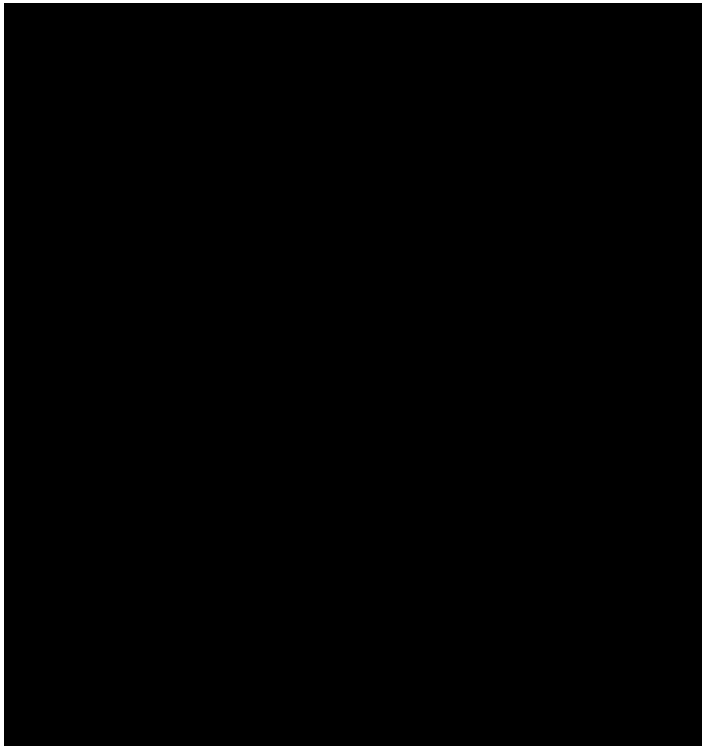
14.2.1 Initial
concentrations of
test substance

[Redacted]

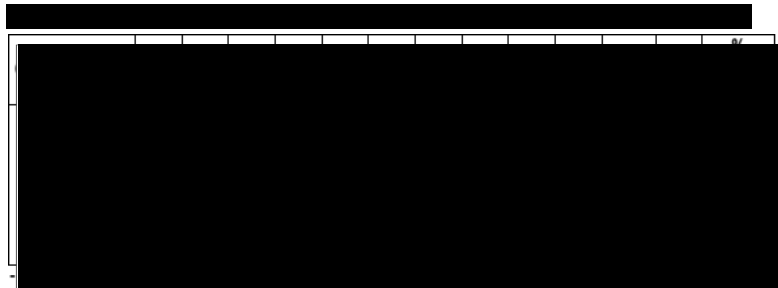
14.2.2 Actual
concentrations of
test substance

[Redacted]

Section 7.4.3.4 **Effects on reproduction and growth rate with an**
Annex Point IIIA XIII 2.4 **invertebrate species**



14.2.3 Effect data



[Redacted text block]

Section 7.4.3.4 **Effects on reproduction and growth rate with an**
Annex Point IIIA XIII 2.4 **invertebrate species**

[Redacted text block]

[Redacted text block]



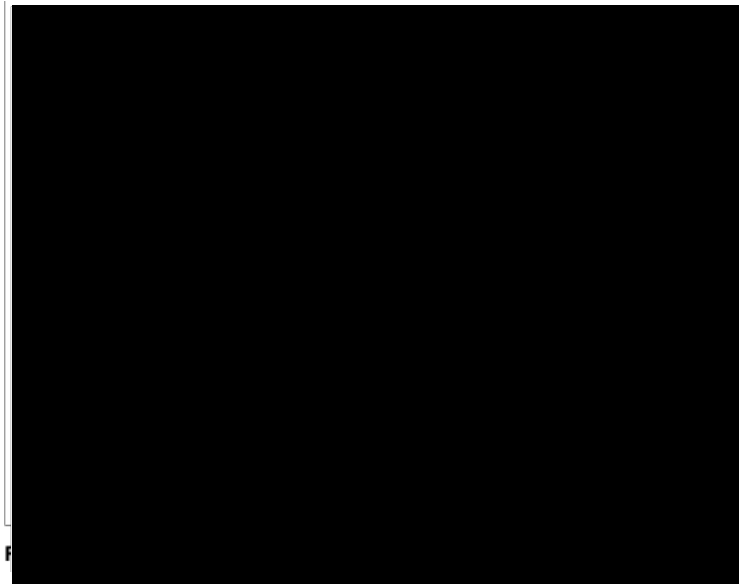
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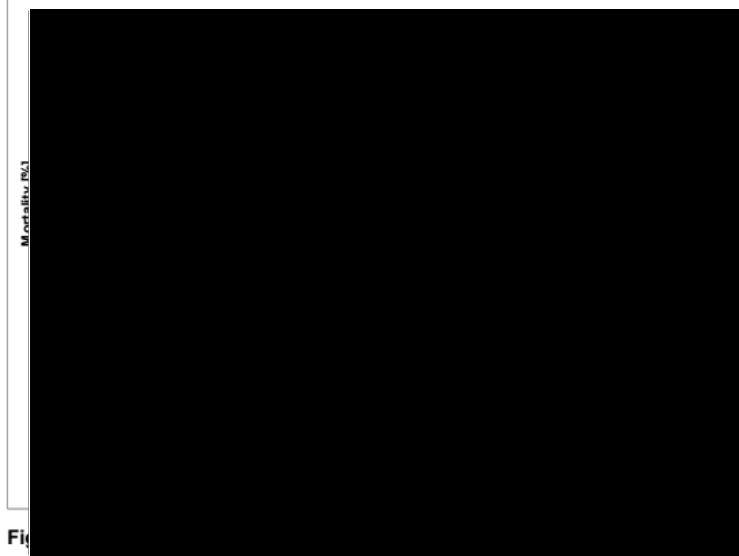
14.2.4 Concentration /
response curve

[Redacted text block]

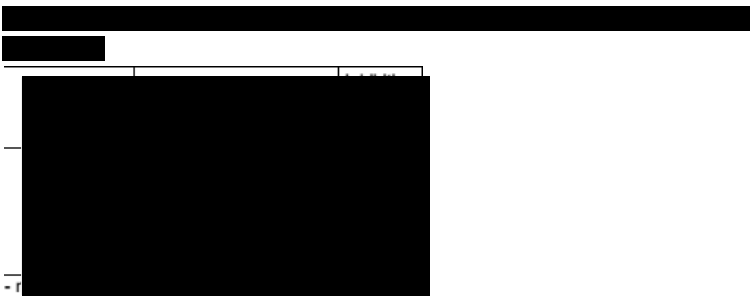
Section 7.4.3.4 **Effects on reproduction and growth rate with an**
Annex Point IIIA XIII 2.4 **invertebrate species**



Plot of mortality of adult daphnids for every day of test:

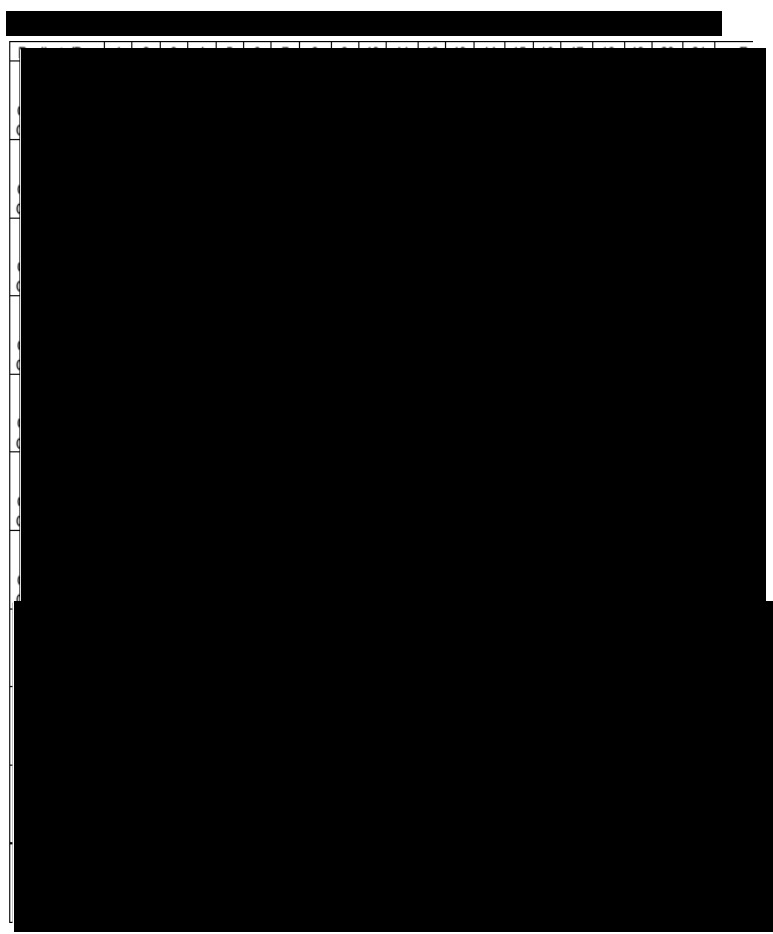


14.2.5 Other effects



Section 7.4.3.4 **Effects on reproduction and growth rate with an**
Annex Point IIIA XIII 2.4 **invertebrate species**

14.3 **Results of controls**



14.4 **Test with reference substance** Not performed

14.4.1 Concentrations Not applicable

14.4.2 Results Not applicable

15 **APPLICANT'S SUMMARY AND CONCLUSION**

15.1 **Materials and methods**
[Redacted text block]

15.2 **Results and discussion**
[Redacted text block]

Section 7.4.3.4 **Effects on reproduction and growth rate with an**
Annex Point IIIA XIII 2.4 **invertebrate species**

Remarks	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>
	COMMENTS FROM ... (specify)
Date	<i>Give date of comments submitted</i>
Materials and Methods	<i>Discuss additional relevant discrepancies referring to the (sub)heading numbers and to applicant's summary and conclusion. Discuss if deviating from view of rapporteur member state</i>
Results and discussion	<i>Discuss if deviating from view of rapporteur member state</i>
Conclusion	<i>Discuss if deviating from view of rapporteur member state</i>
Reliability	<i>Discuss if deviating from view of rapporteur member state</i>
Acceptability	<i>Discuss if deviating from view of rapporteur member state</i>
Remarks	

[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]
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