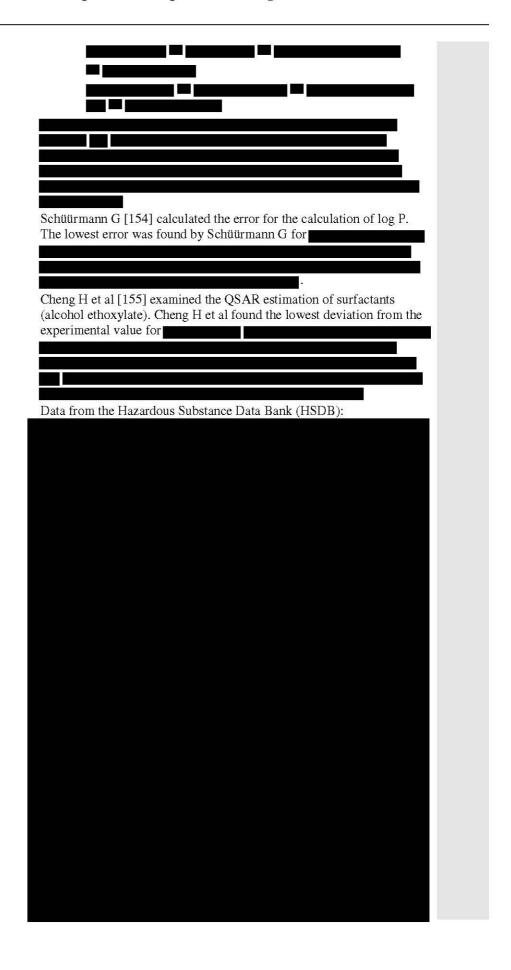
### Section A7.1.3 Annex Point IIA7.7

## Adsorption / Desorption screening test



## Section A7.1.3 Annex Point IIA7.7

## Adsorption / Desorption screening test

		A further experimental test is not justifiable
		With the the currently best available program is used [152]. Its estimation based on log P is a reliable way of estimation soil sorption and its log P estimation was found among the best in comparative studies [153, 155]. The use of in its log P algorithm ensures that the pH dependency of the Koc is considered while the applicability of substances has only been proven on few substances.
		Altogether the gives a reliable and plausible result for the Koc of lauric acid [152].
		In addition, under REACH legislation annex IV "exception to mandatory registration" lauric acid is listed as a substance with minimal risk based on the inherent substance properties. This fact also justified not to conduct a further study, but to accept the QSAR model by
5.2.1	Adsorbed a.s. [%]	Not calculated .
5.2.2	$K_a$	Not calculated .
5.2.3	$K_d$	Not calculated .
5.2.4	$K_{\infty}$	
5.2.5	$K_a/K_d$	Not calculated.
5.2.6	Degradation products (% of a.s.)	Not applicable .
5.3	Conclusion	
5.3.1	Reliability	2
5.3.2	Deficiencies	Not applicable.

	Evaluation by Competent Authorities
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	Give date of action
Materials and Methods	State if the applicants version is acceptable or indicate relevant discrepancies referring to the (sub) heading numbers and to applicant's summary and conclusion.
Results and discussion	Adopt applicant's version or include revised version. If necessary, discuss relevant deviations from applicant's view referring to the (sub)heading numbers
Conclusion	Adopt applicant's version or include revised version

Remarks

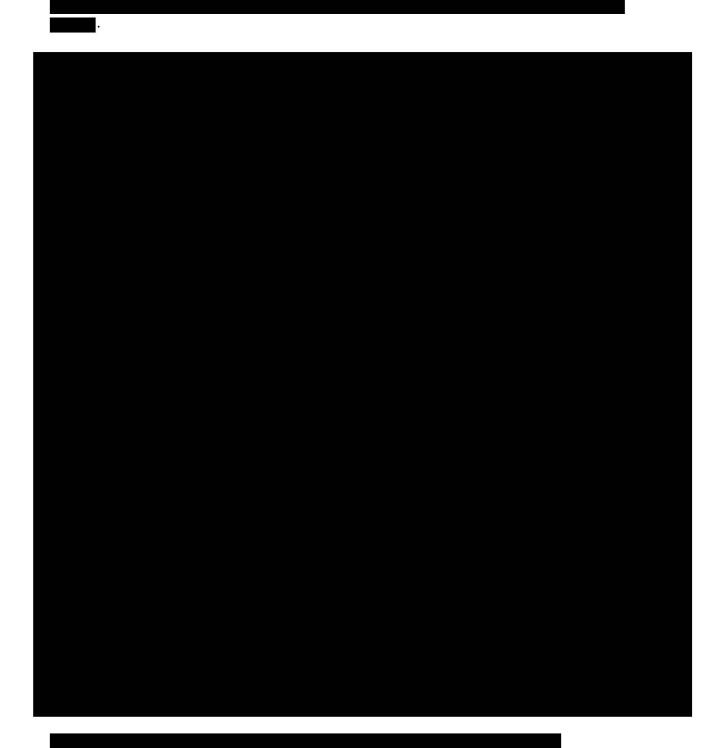
Section A7.1.3 Annex Point IIA7.7	Adsorption / Desorption screening test
Reliability	Based on the assessment of materials and methods include appropriate reliability indicator
Acceptability	acceptable / not acceptable
	(give reasons if necessary, e.g. if a study is considered acceptable despite a poor reliability indicator. Discuss the relevance of deficiencies and indicate if repeat is necessary.)
Remarks	
	COMMENTS FROM
Date	Give date of comments submitted
Materials and Methods	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
Results and discussion	Discuss if deviating from view of rapporteur member state
Conclusion	Discuss if deviating from view of rapporteur member state
Reliability	Discuss if deviating from view of rapporteur member state
Acceptability	Discuss if deviating from view of rapporteur member state

Dr. R.	Pfleger	Chemische	Fabrik	GmbH	
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Lauric acid

11/2008

Annex 1:



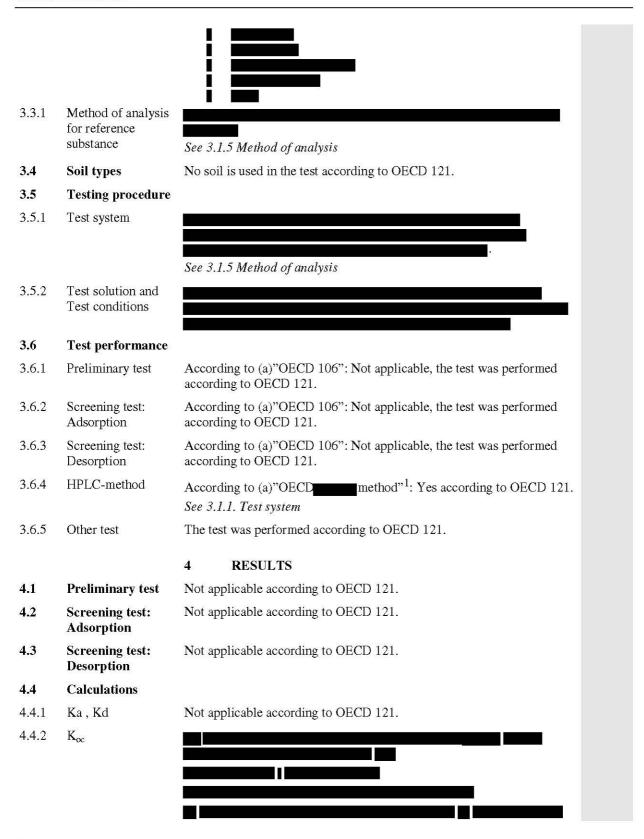
## Annex 2:



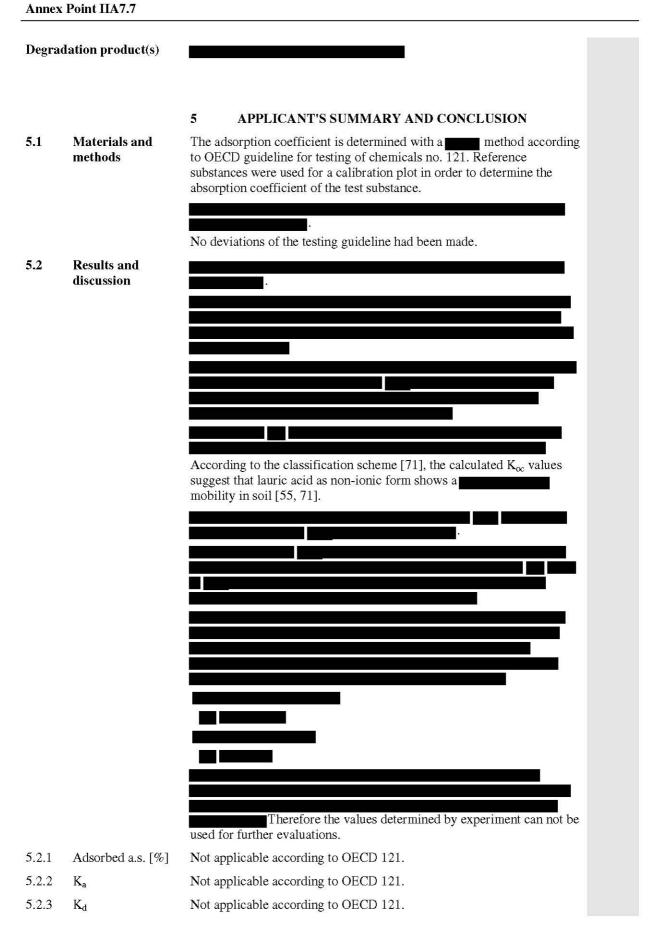
Annex Point IIA7.7

28			
			Official ise only
1.1	Reference	Mills EAM, Mackenzie E, 2007, Lauric acid: Estimation of Adsorption Coefficient (Koc) on Soil and Sewage Sludge by HPLC (OECD 121), Report No. LJ/07/001, Battelle UK Ltd., unpublished [145].	
1.2	Data protection	Yes	
1.2.1	Data owner	Dr. R. Pfleger Chemische Fabrik GmbH	
1.2.2	Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing active substance for the purpose of its authorisation.	
2.1	Guideline study	2 GUIDELINES AND QUALITY ASSURANCE Yes	
		OECD-Test Guideline 121	
2.2	GLP	Yes	
2.3	Deviations	No	
		3 MATERIALS AND METHODS	
3.1	Test material	Lauric acid	
3.1.1	Lot/Batch number	Batch number 43256	
3.1.2	Specification	As given in section 2	
3.1.3	Purity		
3.1.4	Further relevant properties		
3.1.5	Method of analysis		
3.2	Degradation products		
3.2.1	Method of analysis for degradation products		
3.3	Reference substance		
		<u> </u>	
		: <b>=</b>	

Annex Point IIA7.7



 $<sup>^1</sup>$  OECD (1999) OECD-Guidelines for the Testing of Chemicals. Proposal for a new guideline 121: Estimation of the adsorption coefficient ( $K_{\rm OC}$ ) on soil and on sewage sludge using High Performance Liquid Chromatography (HPLC), Draft Document (August 1999).



5.2.4  $K_{oc}$ 

**Annex Point IIA7.7** 



5.2.5 Ka/Kd

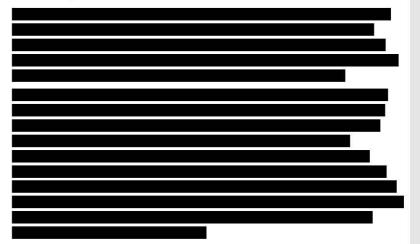
Not applicable according to OECD 121.

5.2.6 Degradation products (% of a.s.)

Not applicable according to OECD 121.

5.3 Conclusion

The test was conducted according to OECD Guideline 121 as instructed by the German authority baua (Federal Institute for Occupational Safety and Health).



5.3.1 Reliability5.3.2 Deficiencies

Evaluation by Competent Authorities
Use separate "evaluation boxes" to provide transparency as
to the comments and views submitted

#### EVALUATION BY RAPPORTEUR MEMBER STATE

Date Give date of action

Materials and Methods State if the applicants version is acceptable or indicate relevant discrepancies

referring to the (sub) heading numbers and to applicant's summary and

conclusion.

2

No

**Results and discussion**Adopt applicant's version or include revised version. If necessary, discuss relevant

deviations from applicant's view referring to the (sub)heading numbers

Annex Point IIA7.7

**Conclusion** Adopt applicant's version or include revised version

**Reliability**Based on the assessment of materials and methods include appropriate reliability

indicator

Acceptability acceptable / not acceptable

(give reasons if necessary, e.g. if a study is considered acceptable despite a poor

reliability indicator. Discuss the relevance of deficiencies and indicate if repeat is

necessary.)

Remarks

COMMENTS FROM ...

Date Give date of comments submitted

Materials and Methods 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

Results and discussion

Discuss if deviating from view of rapporteur member state

Conclusion

Discuss if deviating from view of rapporteur member state

Reliability Discuss if deviating from view of rapporteur member state

Acceptability Discuss if deviating from view of rapporteur member state

Remarks

Section A7.1.4.1 Annex Point IIIA XII.2.1	Further studies on adsorption/desorption in water/sediment systems	
	Field study on accumulation in the sediment	
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]	
Limited exposure [ ]	Other justification [ ]	
Detailed justification:	Studies on adsorption and desorption in water/sediment systems will be necessary if the preliminary risk assessment indicates that it is necessary.	
	The biocidal product is intended for application on human skin, so no field study on accumulation in the sediment is necessary for this active substance in the intended product.	
	Additional the active substance is readily biodegradable in soil and water [55, 68] so there will be no accumulation in the sediment.	
Undertaking of intended data submission [ ]		
	<b>Evaluation by Competent Authorities</b>	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
	EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	Give date of action	
Evaluation of applicant's justification	Discuss applicant's justification and, if applicable, deviating view	
	Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be required, e.g. submission of specific test/study data	
Conclusion	because of the reasons discussed above, indicate which action will be requ	
Conclusion Remarks	because of the reasons discussed above, indicate which action will be requ	
	because of the reasons discussed above, indicate which action will be requ	
	because of the reasons discussed above, indicate which action will be reque.g. submission of specific test/study data	
Remarks	because of the reasons discussed above, indicate which action will be reque.g. submission of specific test/study data  COMMENTS FROM OTHER MEMBER STATE (specify)	
Remarks  Date  Evaluation of applicant's	because of the reasons discussed above, indicate which action will be requese, submission of specific test/study data  COMMENTS FROM OTHER MEMBER STATE (specify)  Give date of comments submitted	

Section A7.1.4 Annex Point IIIA XII.2.2	Further studies on adsorption/desorption in water/sediment systems	
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]	
Limited exposure [ ]	Other justification [ ]	
Detailed justification:	An estimated Koc value of 300 [55, 70] suggests that partitioning from the water column to sediment and supended material may occur [55], however, adsorption is expected to vary with pH [55, 70].	
	Studies on adsorption and desorption in water/sediment systems will be necessary if the preliminary risk assessment indicates that it is necessary.	
	The biocidal product is intended for application on human skin and it is readily biodegradable in soil and water [55, 68], so it is not necessary for this active substance in the intended product.	
Undertaking of intended data submission [ ]		
	Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
	EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	Give date of action	
Evaluation of applicant's justification	Discuss applicant's justification and, if applicable, deviating view	
Conclusion	Indicate whether applicant's justification is acceptable or not. If unaccept because of the reasons discussed above, indicate which action will be request. submission of specific test/study data	
Remarks		
	COMMENTS FROM OTHER MEMBER STATE (specify)	
Date	Give date of comments submitted	
Evaluation of applicant's justification	Discuss if deviating from view of rapporteur member state	
Conclusion Remarks	Discuss if deviating from view of rapporteur member state	

Section A7.2.1 Annex Point IIIA XII.1.1	Fate and behaviour in soil Aerobic degradation in soil, initial study	
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official
		use only
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]	
Limited exposure [ ]	Other justification [ ]	
Detailed justification:	The active substance is intended to be used as repellent on human skin. The active substance is not used directly on, released to or disposed in/on soil in relevant amounts, and it is known that the fatty acid lauric acid is readily biodegradable in soil and water [55, 68], so no additional test on aerobic degradation in soil is necessary.	
Undertaking of intended data submission [ ]		
	Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
	EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	Give date of action	
Evaluation of applicant's justification	Discuss applicant's justification and, if applicable, deviating view	
Conclusion	Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be required, e.g. submission of specific test/study data	
Remarks		
	COMMENTS FROM OTHER MEMBER STATE (specify)	
Date	Give date of comments submitted	
Evaluation of applicant's justification	Discuss if deviating from view of rapporteur member state	
Conclusion	Discuss if deviating from view of rapporteur member state	
Remarks		

Section A7.2.2.1 Annex Point IIIA XII.1.1, XII.1.4	Aerobic degradation in soil, further studies  The rate and route of degradation including identification of the processes involved and identification of any metabolites and degradation products in at least three soil types under appropriate conditions	
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]	
Limited exposure [ ]	Other justification [ ]	
Detailed justification:	The active substance is intended to be used as repellent on human skin. The active substance is not used directly on, released to or disposed in/on soil in relevant amounts, and it is known that the fatty acid lauric acid is readily biodegradable in soil and water [55, 68], so no additional test on the rate and the route of degradaton is necessary.	
Undertaking of intended data submission [ ]		
	<b>Evaluation by Competent Authorities</b>	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
	EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	Give date of action	
Evaluation of applicant's justification		
Conclusion	Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be required, e.g. submission of specific test/study data	
Remarks		
	COMMENTS FROM OTHER MEMBER STATE (specify)	
Date	Give date of comments submitted	
Evaluation of applicant's justification	Discuss if deviating from view of rapporteur member state	
Conclusion	Discuss if deviating from view of rapporteur member state	
- A:		
Remarks		

Section A7.2.2.2 Annex Point IIIA XII.1.1	Aerobic degradation in soil, further studies Field soil dissipation and accumulation	
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]	
Limited exposure [ ]	Other justification [ ]	
Detailed justification:	The active substance is intended to be used as repellent on human skin. The active substance is not used directly on, released to or disposed in/on soil in relevant amounts, and it is known that the fatty acid lauric acid is readily biodegradable in soil and water [55, 68], so no additional test on field soil dissipation and accumulation is necessary.	
Undertaking of intended data submission [ ]		
	Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
	EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	Give date of action	
Evaluation of applicant's justification	Discuss applicant's justification and, if applicable, deviating view	
Conclusion	Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be required, e.g. submission of specific test/study data	
Remarks		
	COMMENTS FROM OTHER MEMBER STATE (specify)	
Date	Give date of comments submitted	
Evaluation of applicant's justification	Discuss if deviating from view of rapporteur member state	
Conclusion	Discuss if deviating from view of rapporteur member state	
Remarks		

Section A7.2.2.3 Annex Point IIIA XII.1.4	Aerobic degradation in soil, further studies  Extend and nature of bound residues	
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]	
Limited exposure [ ]	Other justification [ ]	
Detailed justification:	The active substance is intended to be used as repellent on human skin. The active substance is not used directly on, released to or disposed in/on soil in relevant amounts, and it is known that the fatty acid lauric acid is readily biodegradable in soil and water [55, 68], so no additional test on the extend and nature of bound residues is necessary.	
Undertaking of intended data submission [ ]		
	Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
	EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	Give date of action	
Evaluation of applicant's justification	Discuss applicant's justification and, if applicable, deviating view	
Conclusion	Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be required, e.g. submission of specific test/study data	
Remarks		
	COMMENTS FROM OTHER MEMBER STATE (specify)	
Date	Give date of comments submitted	
Evaluation of applicant's justification	Discuss if deviating from view of rapporteur member state	
Conclusion	Discuss if deviating from view of rapporteur member state	
Remarks		

Section A7.2.2.4 Annex Point IIIA XII.1.4	Aerobic degradation in soil, further studies  Other soil degradation studies			
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only		
Other evisting Jets [ ]	Tasknisally not familla [1] Scient@colly univet@cd [vi]			
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]			
Limited exposure [ ]	Other justification [ ]			
Detailed justification:	The active substance is intended to be used as repellent on human skin. The active substance is not used directly on, released to or disposed in/on soil in relevant amounts, and it is known that the fatty acid lauric acid is readily biodegradable in soil and water [55, 68], so no other soil degradation studies are necessary.			
Undertaking of intended data submission [ ]				
	Evaluation by Competent Authorities			
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted			
	Use separate "evaluation boxes" to provide transparency as to the			
Date	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted			
Date Evaluation of applicant's justification	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE			
Evaluation of applicant's	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action			
Evaluation of applicant's justification	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unaccept because of the reasons discussed above, indicate which action will be required.			
Evaluation of applicant's justification Conclusion	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unaccept because of the reasons discussed above, indicate which action will be required.			
Evaluation of applicant's justification Conclusion	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unaccept because of the reasons discussed above, indicate which action will be request, submission of specific test/study data			
Evaluation of applicant's justification Conclusion Remarks	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unaccept because of the reasons discussed above, indicate which action will be request, submission of specific test/study data  COMMENTS FROM OTHER MEMBER STATE (specify)			
Evaluation of applicant's justification Conclusion Remarks Date Evaluation of applicant's	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unaccept because of the reasons discussed above, indicate which action will be requese, submission of specific test/study data  COMMENTS FROM OTHER MEMBER STATE (specify)  Give date of comments submitted			

Adsorption and mobility in soil, further studies  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					
OF DATA	Official use only				
njustified [x]					
ent on human skin. to or disposed e fatty acid lauric B], so no additional					
ency as to the					
ency as to the					
1994					
1994					
TATE					
TATE eviating view le or not. If unaccepto					
TATE eviating view le or not. If unaccepto					
TATE eviating view le or not. If unaccepto ch action will be requ					
TATE eviating view le or not. If unaccepto ch action will be requ					
TATE  eviating view  le or not. If unaccepto  ch action will be reque  E (specify)					
	vant, adsorption ets  OF DATA  ijustified [x]  nt on human skin. to or disposed e fatty acid lauric				

Section A7.2.3.2 Annex Point IIIA XII.1.3	Adsorption and mobility in soil, further studies  Mobility in at least three soil types and where relevant mobility of metabolites and degradation products				
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only			
		•			
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]				
Limited exposure [ ]	Other justification [ ]				
Detailed justification:	The active substance is intended to be used as repellent on human skin. The active substance is not used directly on, released to or disposed in/on soil in relevant amounts, and it is known that the fatty acid lauric acid is readily biodegradable in soil and water [55, 68], so no additional adsorption and mobility studies are necessary.				
Undertaking of intended data submission [ ]					
	Evaluation by Competent Authorities				
	Evaluation by Competent Authorities  Use separate "evaluation boxes" to provide transparency as to the comments and views submitted				
	Use separate "evaluation boxes" to provide transparency as to the				
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted				
data submission [ ]	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE				
data submission [ ]  Date Evaluation of applicant's	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action				
Date Evaluation of applicant's justification	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unacceptable of the reasons discussed above, indicate which action will be requ				
Date Evaluation of applicant's justification Conclusion	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unacceptable of the reasons discussed above, indicate which action will be requ				
Date Evaluation of applicant's justification Conclusion	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be request, submission of specific test/study data				
Date Evaluation of applicant's justification Conclusion Remarks	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be request, submission of specific test/study data  COMMENTS FROM OTHER MEMBER STATE (specify)				
Date Evaluation of applicant's justification Conclusion  Remarks  Date Evaluation of applicant's	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted  EVALUATION BY RAPPORTEUR MEMBER STATE  Give date of action  Discuss applicant's justification and, if applicable, deviating view  Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be requese, submission of specific test/study data  COMMENTS FROM OTHER MEMBER STATE (specify)  Give date of comments submitted				

Section A7.3.1 Annex Point IIIA VII.5						
	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:	Vapor-phase lauric acid will degrade in the ambient atmosphere by reaction with photochemically produced hydroxyl radicals with an estimated half-life of about 1.21 days [55, 72]. Moreover, physical removal from air throught wet deposition (e.g., rainfall, dissolution into clouds) may be possible [55, 73].					
	Additional data are not available, but the molecular structure of lauric acid has no C-C double bond which could be sensitive to radical species and carboxylic acids are generally resistant to aqueous environmental hydrolysis [66].					
	Generally, the active ingredient of the product is used as a repellent after topical application. Concentrations evaporated into the air will be very low and limited to the direct environment of the human body.					
	The specific first order degradation rate constant of a substance with OH-radicals was estimated by the (Q)SAR-method [123]:					
	The kdeg <sub>air</sub> shows the degradation of lauric acid in the air. So					
	there will be no accumulation in the air or transportation by the air to other areas.					
Undertaking of intended data submission [ ]						
	<b>Evaluation by Competent Authorities</b>					
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted					
	EVALUATION BY RAPPORTEUR MEMBER STATE					
Date	Give date of action					
Evaluation of applicant's justification	Discuss applicant's justification and, if applicable, deviating view					
Conclusion	Indicate whether applicant's justification is acceptable or not. If unaccept because of the reasons discussed above, indicate which action will be request. submission of specific test/study data					

Section A7.3.1 Annex Point IIIA VII.5	Fate and behaviour in air  Phototransformation in air including identification of breakdown products
Remarks	
	COMMENTS FROM OTHER MEMBER STATE (specify)
Date	Give date of comments submitted
Evaluation of applicant's justification	Discuss if deviating from view of rapporteur member state
Conclusion	Discuss if deviating from view of rapporteur member state
Remarks	

Section A7.3.2 Annex Point IIIA XII.3	Fate and behaviour in air				
Aillex Folit IIIA AII.5	Further studies	17/4/27/17			
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only			
Other existing data [ ]	Technically not feasible [ ] Scientifically unjustified [x]				
Limited exposure [ ]	Other justification [ ]				
Detailed justification:	The Henry's Law constant for dodecanoic acid can be estimated to be 9.3·10 <sup>-6</sup> atm-m³/mole [70]. According to a suggested classification scheme [74], this value of Henry's Law constant indicates that volatilization of dodecanoic acid from water will not be rapid, but possibly important in shallow rivers [74].				
	Based on a estimated vapour pressure of 1.5·10 <sup>-5</sup> mm Hg at 25°C, dodecanoid acid should exist in very small quantities in vapor and particulate phase in the ambient atmosphere [75].				
	The active substance is not used in preparations for fumigants and the active substance does not cause risk to the atmospheric environmental, because it is used on human skin.				
	Taking into consideration that Lauric acid is naturally released to the environment in emissions from animal waste, vegetation and tabacco smoke [76], no further studies on the behaviour in air are necessary.				
Undertaking of intended data submission [ ]					
	Evaluation by Competent Authorities				
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted				
	EVALUATION BY RAPPORTEUR MEMBER STATE				
Date	Give date of action				
Evaluation of applicant's justification	Discuss applicant's justification and, if applicable, deviating view				
Conclusion	Indicate whether applicant's justification is acceptable or not. If unacceptable because of the reasons discussed above, indicate which action will be required, e.g. submission of specific test/study data				
Remarks					
	COMMENTS FROM OTHER MEMBER STATE (specify)				
Date	Give date of comments submitted				
Evaluation of applicant's justification	Discuss if deviating from view of rapporteur member state				
Conclusion	Discuss if deviating from view of rapporteur member state				
Remarks					

### Section A7.4.1.1 Annex Point IIA VII.7.1

## Aquatic toxicity, initial tests

Acute toxicity to fish

			0.00 1.1			
		1 REFERENCE	Official use only			
1.1	Reference	Egmond van R, Hambling S, Marshall S: Bioconcentration, biotransformation, and chronic toxicity of sodium laurate to zebrafish (Danio rerio). Environ Toxicol Chem <b>18</b> (3): 466-473, 1999 (published) [77]				
1.10	Data protection	No				
1.10.2	Data owner	Not applicable.				
1.10.3	Criteria for data protection	No data protection claimed				
		2 GUIDELINES AND QUALITY ASSURANCE				
2.1	Guideline study	Yes				
		OECD: Guideline for testing chemicals: Proposal for fish juvenile growth test. Draft Document. Paris, France, 1997.				
		OECD: Guideline for testing chemicals, Vol. 2, Sect. 3-Bioaccumulation: Flow through fish test. Guideline 305E. Paris, France, 1993.				
2.2	GLP	No data available.				
2.3	Deviations	A Zebrafish is used according the recommendation of the OECD Guideline for testing chemicals: Proposal for fish juvenile growth test. Draft Document. Paris, France, 1997.				
		The estimated time to reach 95% of steady state is made according the OECD Guideline for testing chemicals, Vol. 2, Sect. 3-Bioaccumulation: Flow through fish test. Guideline 305E. Paris, France, 1993.				
		3 MATERIALS AND METHODS				
3.1	Test material	As given in section 2				
3.1.1	Lot/Batch number	No lot/batch number named.				
3.1.2	Specification	As given in section 2				
3.1.3	Purity	98%				
3.1.4	Composition of Product	The pure active substance is used in the test.				
3.1.5	Further relevant properties	A <sup>14</sup> C marked active substance is used for the test, too.				
3.1.6	Method of analysis	The substance is stable, but with low water solubility, so the stock solutions were warmed above the Kraft point of 35-40°C.				
3.2	Preparation of TS solution for poorly soluble or volatile test substances	Stock solutions were prepared by warming equimolar quantities of sodium hydroxide and lauric acid in destilled water in a water bath to keep the soap in solution. Radiolabeled lauric acid in dimethyl sulfoxide (DMSO) was added to each stock (final concentration, 0.5 $\mu$ l DMSO/L) to give specific activities.				
		Effect concentrations in the growth rate test were therefore based on soluble laurate estimated after separation by centrifugation.				
10 <u>2-0</u> 000000		See table A7_4_1_1-1				
3.3	Reference	Not named.				

## **Section A7.4.1.1**

## Aquatic toxicity, initial tests

Annex Point IIA VII.7.1

Acute toxicity to fish

111111021	TOMOTHE VIII.	Acute toxicity	y to fish					
	substance							
3.3.1	Method of analysis for reference substance	Not named.						
3.4	Testing procedure							
3.4.1	Dilution water	Give details of	n dilution	water in t	abular for	rm, see tal	ole A7_4_	1_1-2
3.4.2	Test organisms	Give details of Number of test		100 to 10		form, see	table A7_	4_1_1-3
3.4.3	Test system	See table A7_	4_1_1-4					
3.4.4	Test conditions	See table A7_	4_1_1-5					
3.4.5	Duration of the test	28 days						
3.4.6	Test parameter	Concentration	ı, tissue, r	nortality, į	growth, w	ater qualit	t <b>y</b>	
3.4.7	Sampling	Concentration, tissue, mortality, growth, water quality  Examination: For weighing procedure the fishes were temporarily anesthetized using 3-aminobenzoic acid ethyl ester (300 mg/L,< 1 min duration), gently blotted to remove excess moisture and weighed on a four-figure balance. The fishes were allowed to recover in clean water and then exposed to sodium laurate.  The fishes were not fed on day 13 and 27 and were reweighed on day 14 and 28.						
3.4.8	Monitoring of TS concentration	Yes Concentration throughout th sampling occur to determine in radioactivity fish on four o	e test (n=: assion). L if biodegr: (n=16, on	21, one sa auric acid adation pre e sample f	mple per t was extra oducts sig	est concer cted from mificantly	ntration or the water contribut	n each samples ed to total
3.4.9	Statistics	Mean weights and pseudospecific growth rates were compared using nonparametric analysis of variance (Kruskal-Wallis one-way ANOVA) followed by Dunn's test (two-tailed test, comparison against a control group), as a test for normality (Shapiro-Wilk) indicated some of the data were not normally distributed. Toxicity data were analyzed by nonlinear interpolation, or if the data allowed, by the probit method.  4 RESULTS						
T 4	T) 222 6	NT						
Limit ' 4.1.1	Concentration	Not named.						
7.1.1	Concenti attoli	Nominal concentration	0 mg/L	2.0 mg/L	3.6 mg/L	6.4 mg/L	11.2 mg/L	20 mg/L
4.1.2	Number/ percentage of animals showing	Nominal concentration	0 mg/L	2.0 mg/L	3.6 mg/L	6.4 mg/L	11.2 mg/L	20 mg/L
	adverse effects	Effect	mean weight increase	mean weight increase,	mean weight increase,	mean weight increase,	mean weight increase	mean weight increase

more

than the

control

more

than the

singificant

more

than the

control

after 14

days

after 14

days

#### Section A7.4.1.1 Annex Point IIA VII.7.1

### Aquatic toxicity, initial tests

Acute toxicity to fish

		fish	control fish	fish		
Weight increase after 14 days	18%	29%	33%	24%	3%	13%
Weight increase after 28 days	47%	64%	75%	60%	ser-	-
Deaths	ea	=	6%	14%	75%*	75%*

<sup>\*</sup>Fish surviving 15 d in the top two exposure concentrations were not further exposed.

# 4.1.3 Nature of adverse effects

#### Death

#### Results test substance

4.1.4 Initial concentrations of test substance

Nominal	0 mg/L	2.0 mg/L	3.6 mg/L	6.4 mg/L	11.2 mg/L	20 mg/L
concentration	2993	2000	194/05/1	You	2,590	***************************************

4.1.5 Actual concentrations of test substance

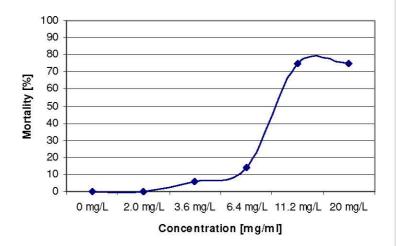
Nominal concentration	0 mg/L	2.0 mg/L	3.6 mg/L	6.4 mg/L	11.2 mg/L	20 mg/L
Measured concentration	0 mg/L	2.2 mg/L	3.7 mg/L	6.6 mg/L	12.9 mg/L	20.1 mg/L

4.1.6 Effect data (Mortality)

No mortality/survival data at embryo, larval and juvenile stages as well as overall mortality/survival are reported.

For the reported effects see table in 4.1.2.

4.1.7 Concentration / response curve



4.1.8 Other effects

Low levels of lauric acid were also seen in control fish tissue from the growth rate test (0.03 and 0.04 mmol/kg) and are believed to be of natural origin.

### Results of controls

4.1.9 Number/ percentage of animals showing adverse effects 16

4.1.10 Nature of adverse

Low levels of lauric acid were also seen in contro fish tissue from the

5.3.3 Deficiencies

Yes

	on A7.4.1.1 Point IIA VII.7.1	Aquatic toxicity, initial tests Acute toxicity to fish
	effects	growth rate test (0.03 and 0.04 mmol/kg) and are believed to be of natural origin.
	ith reference ostance	Not performed
4.1.11	Concentrations	Not applicable.
4.1.12	Results	Not applicable.
		5 APPLICANT'S SUMMARY AND CONCLUSION
5.1	Materials and methods	OECD: Guideline for testing chemicals: Proposal for fish juvenile growth test. Draft Document. Paris, France, 1997: A Zebrafish is used according the recommendation of the guideline.
		OECD: Guideline for testing chemicals, Vol. 2, Sect. 3-Bioaccumulation: Flow through fish test. Guideline 305E. Paris, France, 1993: The estimated time to reach 95% of steady state.
5.2	Results and discussion	Mortality is higher with a concentration of 11.2 mg/L and 20 ml/L compared to the lower concentrations, but there is no real trend in the growth rate detectable.
		Soaps such as lauric acid are difficult substances to test in natural water because of formation of calcium salts, which have low solubility products. It is likely that soluble lauric acid causes almost all the toxic effects, whereas particulate laurate makes an insignificant contribution because of its low bioavailability. Effects on the growth rate were therefore based on the soluble laurate estimated after separation by centrifugation.
5.2.2	$LC_0$	Not determined.
5.2.3	$LC_{50}$	After 4, 8, 15, 28 day median lethal concentration is: >20, 12, 9.9 and 9.8 mg/L
5.2.4	$LC_{100}$	Not determined.
5.3	Conclusion	A relation between the concentration of lauric acid and the mortality is seen. There is a high increase of mortality over a concentration of 6.4 mg/L, but no great difference between the concentration of 11.2 ml/L and 20 ml/L.
		Concerning the weight increase, there is no relation between increasing concentration of lauric acid and increasing weight, the weight is increasing in the concentrations from 0 ml/L to 3.6 ml/L. It is detectable that the weight increase after 28 days is higher than after 14 days.
5.3.1	Other Conclusions	The active substance is readily biodegradable in soil and water [55, 68] although it is classified as low hazardous to water (WGK 1) according the German "Allgemeine Verwaltungsvorschrift zum Wasserhaushaltsgesetz über die Einstufung wassergefährdender Stoffe in Wassergefährdungsklassen (VwVwS)" from 17.05.1999, last change 27.07.2005.
		As shown in the subchronic toxicity study, there is no acute toxicity, too.
		The intended use as repellent and the low hazardous to water which is no danger to environment because the concentration of LC50 or NOEC will never be obtained if the active substance is used in the biocidal product as a repellent on human skin.
5.3.2	Reliability	1

#### Section A7.4.1.1 Annex Point IIA VII.7.1

## Aquatic toxicity, initial tests

Acute toxicity to fish

Although no decision can made whether all guidelines are fulfilled, the given results are adequate to show the nontoxicity of lauric acid to fish. There are some deviations from the guidelines, but the main results, that the concentrations of NOEC and LC50 will not be reached by application and use of the biocidal product is not influenced. So there is no need for more studies of reproduction and growth rate of fish. In addition lauric acid is readily biodegradable [55, 68], so that there will be no hazardous concentration for a longer period.

	Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
	Evaluation by Rapporteur Member State	
Date	Give date of action	
Materials and Methods	State if the applicants version is acceptable or indicate relevant discrepancies referring to the (sub) heading numbers and to applicant's summary and conclusion.	
<b>Results and discussion</b> Adopt applicant's version or include revised version. If necessary, discuss deviations from applicant's view referring to the (sub)heading numbers		
Conclusion	Adopt applicant's version or include revised version	
Reliability	<b>ability</b> Based on the assessment of materials and methods include appropriate reliabi indicator	
Acceptability	acceptable / not acceptable	
•	(give reasons if necessary, e.g. if a study is considered acceptable despite a poor reliability indicator. Discuss the relevance of deficiencies and indicate if repeat is necessary.)	
Remarks		
	Comments from	
Date	Give date of comments submitted	
Materials and Methods	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	
Results and discussion	Discuss if deviating from view of rapporteur member state	
Conclusion	Discuss if deviating from view of rapporteur member state	
Reliability	Discuss if deviating from view of rapporteur member state	
Acceptability	Discuss if deviating from view of rapporteur member state	
Remarks		
Remarks		

Table A7\_4\_1\_1-1: Preparation of TS solution for poorly soluble or volatile test substances

Criteria	Details
Dispersion	No
Vehicle	No
Concentration of vehicle	Not applicable.
Vehicle control performed	No
Other procedures	Stock solutions were prepared by warming equimolar quantities of sodium hydroxide and lauric acid in destilled water in a water bath to keep the soap in solution. Radiolabeled lauric acid in dimethyl sulfoxide (DMSO) was added to each stock (final concentration, 0.5 µl DMSO/L) to give specific activities.

Table A7\_4\_1\_1-2: Dilution water

Criteria	Details	
Source	Tap water, carbon-filtered for the control fish and for dilution of stock solution,  Distilled water for the preparation of the stock solutions of lauric acid.	
Salinity	Not relevant.	
Hardness	96.5 mg/L CaCO <sub>3</sub> as mean during the test	
рН	7.6 as mean during the test	
Oxygen content	8 mg/L as mean during the test	
Conductance	No data available.	
Holding water different from dilution water	No data available.	

Table A7\_4\_1\_1-3: Test organisms

Criteria	Details
Species/strain	Zebrafish (Danio Rerio), no data available about the strain.
Source	No data available.
Wild caught	No data available.
Age/size	Juvenile fish (about 2 month old)
Kind of food	Proprietary fish food (Tetramin®) and Artemia
Amount of food	During week: 2% of their wet weight Tetramin and Artemia Weekend: only Tetramin at 4% of their body weight
Feeding frequency	Once daily
Post-hatch transfer time	No data available.
Time to first feeding	No data available.

Table A7\_4\_1\_1-4: Test system

Criteria	Details	
Test type	Flow-through	
Renewal of test solution	Flow rate: 170-180 ml/min	
	One volume replacement occurred every 28 min.	
	Continuous flowing media were supplied by pumping sodium laurate stocks with peristaltic pumps and diluting them with carbon filtered tap-water, which was gravity fed. Sodium laurate stock solutions were mixed with dilution water in sidearm flasks (stirred with magnetic stirrer) before flowing into the test vessel.	
Volume of test vessels	5 L	
Volume/animal	No data available.	
Number of animals/vessel	No data available.	
Number of vessels/ concentration	No data available.	
Test performed in closed vessels due to significant volatility of TS	No data available.	

Table A7\_4\_1\_1-5: Test conditions

Criteria	Details
Test temperature	Mean temperature of solution: 35-40°C,
	dilution water: 21.5°C
Dissolved oxygen	8 mg/L as mean during the test (see above)
pН	7.6 as mean during the test (see above)
Adjustment of pH	No data available.
Aeration of dilution water	No data available. 8 mg/L as mean during the test
Intensity of irradiation	No data available.
Photoperiod	16-h-light/8-h-dark photoperiod

Table A7\_4\_1\_1-6: Mortality data

Not applicable.

Table A7\_4\_1\_1-7: Effect data

	4 d	8 d	15 d	28 d
$LC_0$	not determined	not determined	not determined	not determined
$\mathrm{LC}_{50}$	> 20 mg/L (n)	12 mg/L (n)	9.9 mg/L (n)	9.8 mg/L (n)
$LC_{100}$	not determined	not determined	not determined	not determined

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

Table A7\_4\_1\_1-8: Validity criteria for acute fish test according to OECD Guideline 203

	fulfilled	Not fullfilled
Mortality of control animals <10%	X	
Concentration of dissolved oxygen in all test vessels > 60% saturation		nade, because no on are available
Concentration of test substance ≥80% of initial concentration during test	X	

Criteria for poorly soluble test substances		
Special preparation of test solution is conducted.	X	

## Section A7.4.1.2 Acute toxicity to invertebrates

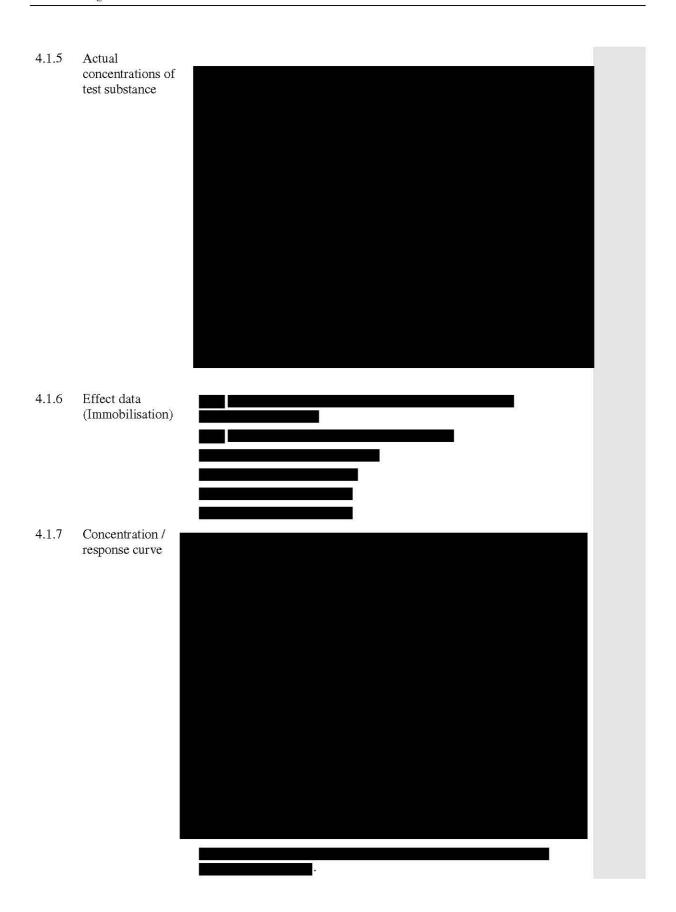
Annex Point IIA7.2 Daphnia magna

			Official	
		1 REFERENCE	use only	
1.1	Reference	Hafner C, 2006, Daphnia immobilisation test with ContraZeck Lotion according to OECD-Test Guideline 202, unpublished [133].		
1.2	Data protection	Yes		
1.2.1	Data owner	Dr. R. Pfleger Chemische Fabrik GmbH		
1.2.2	Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing active substance for the purpose of its authorisation.		
		2 GUIDELINES AND QUALITY ASSURANCE		
2.1	Guideline study	Yes		
2.2	GLP	Yes		
2.3	Deviations	Yes, the preliminary tests for range finding was performed without GLP.		
		3 MATERIALS AND METHODS		
3.1	Test material	As given in section B2		
3.1.1	Lot/Batch number	43232		
3.1.2	Specification	As given in section B2		
3.1.3	Purity			
3.1.4	Composition of Product	As given in section B2		
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	See table A7_4_1_2-1		

## Section A7.4.1.2 Acute toxicity to invertebrates

Annex Point IIA7.2 Daphnia magna

3.3.1 Method of analysis for reference substance  3.4 Testing procedure  3.4.1 Dilution water See table A7_4_1_2-2  3.4.2 Test organisms See table A7_4_1_2-3  3.4.3 Test system See table A7_4_1_2-4
3.4.1 Dilution water See table A7_4_1_2-2 3.4.2 Test organisms See table A7_4_1_2-3
3.4.2 Test organisms See table A7_4_1_2-3
and based by specific and with manufacture of the specific specifi
3.4.3 Test system See table A7_4_1_2-4
3.4.4 Test conditions See table A7_4_1_2-5
3.4.5 Duration of the test
3.4.6 Test parameter
3.4.7 Sampling
3.4.8 Monitoring of TS Yes concentration
3.4.9 Statistics .
4 RESULTS
Limit Test Not performed.
4.1.1 Concentration Not applicable,
4.1.2 Number/ Not applicable
4.1.3 Nature of adverse Not applicable, effects
Results test substance
4.1.4 Initial concentrations of test substance



4.1.8

4.1.9

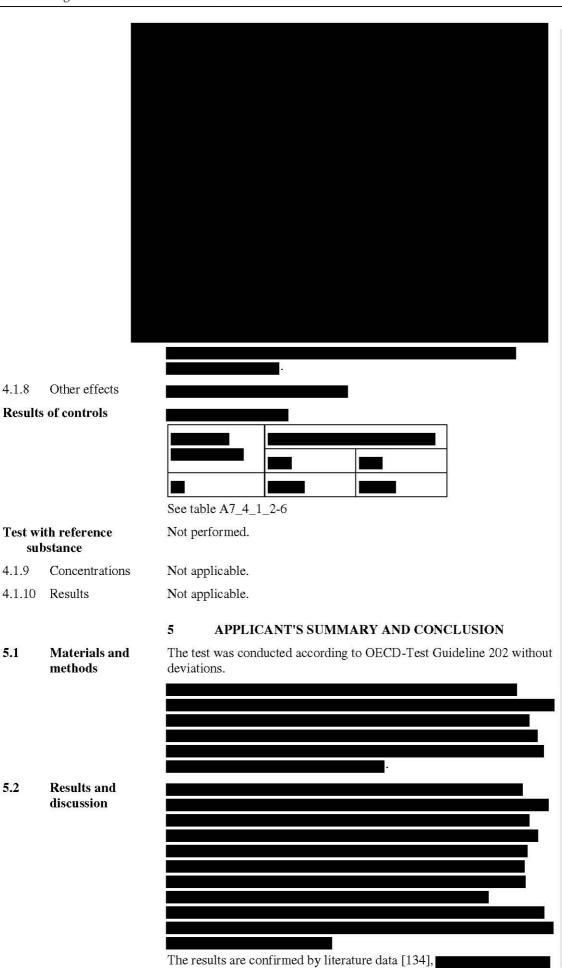
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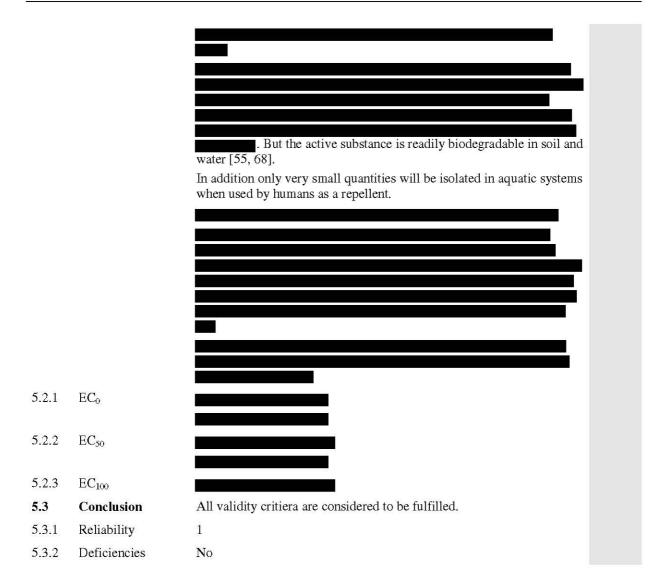
5.2

substance

methods

4.1.10 Results





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Date	Give date of action		
Materials and Methods	State if the applicants version is acceptable or indicate relevant discrepancies referring to the (sub) heading numbers and to applicant's summary and conclusion.		
Results and discussion	Adopt applicant's version or include revised version. If necessary, discuss relevant deviations from applicant's view referring to the (sub)heading numbers		
Conclusion	Adopt applicant's version or include revised version		
Reliability	Based on the assessment of materials and methods include appropriate reliability indicator		
Acceptability	acceptable / not acceptable		
	(give reasons if necessary, e.g. if a study is considered acceptable despite a poor reliability indicator. Discuss the relevance of deficiencies and indicate if repeat is necessary.)		

Remarks	
	COMMENTS FROM
Date	Give date of comments submitted
Materials and Methods	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
Results and discussion	Discuss if deviating from view of rapporteur member state
Conclusion	Discuss if deviating from view of rapporteur member state
Reliability	Discuss if deviating from view of rapporteur member state
Acceptability	Discuss if deviating from view of rapporteur member state
Remarks	

Table A7\_4\_1\_2-1: Preparation of TS solution for poorly soluble or volatile test substances

Criteria	Details
Dispersion	
Vehicle	
Concentration of vehicle	
Vehicle control performed	
Other procedures	

Table A7\_4\_1\_2-2: Dilution water

Criteria	Details
Source	
Alkalinity	
Hardness	
pН	
Ca / Mg ratio	
Na / K ratio	
Oxygen content	
Conductance	
Holding water different from dilution water	

Table A7\_4\_1\_2-3: Test organisms

Criteria	Details
Strain	Daphnia magna Strauss
Source	
Age	
Breeding method	
Kind of food	
Amount of food	
Feeding frequency	
Pretreatment	
Feeding of animals during test	

Table A7\_4\_1\_2-4: Test system

Criteria	Details
Renewal of test solution	
Volume of test vessels	
Volume/animal	
Number of animals/vessel	
Number of vessels/ concentration	
Test performed in closed vessels due to significant volatility of TS	

Table A7\_4\_1\_2-5: Test conditions

Criteria	Details
Test temperature	
Dissolved oxygen	
pН	
Adjustment of pH	
Aeration of dilution water	
Quality/Intensity of irradiation	
Photoperiod	

Table A7\_4\_1\_2-6: Immobilisation data

Test-Substance Concentration		Immobile	e Daphnia				1
(nominal/effective) <sup>1</sup> [mg/l]	Number				Oxygen [mg/l]	pН	Tempera- ture [°C]
_	<b>■</b> h	h	<b>h</b>	<b>■</b> h	h	<b>h</b>	<b>■</b> h

<sup>&</sup>lt;sup>1</sup> specify, if TS concentrations were nominal or measured

Table A7\_4\_1\_2-7: Effect data

$\mathrm{EC_{50}}^{-1}$	95% c.l.	$\mathrm{EC_0}^1$	$EC_{100}^{-1}$
r en			

<sup>&</sup>lt;sup>1</sup> indicate if effect data are based on nominal (n) or measured (m) concentrations

Table A7\_4\_1\_2-8: Validity criteria for acute daphnia immobilistaion test according to OECD Guideline 202

	fulfilled	Not fullfilled
Immobilisation of control animals <10%		
Control animals not staying at the surface		
Concentration of dissolved oxygen in all test vessels > 60% of starting concentration		
Concentration of test substance ≥80% of initial concentration during test		

Criteria for poorly soluble test substances completed	
- Special preparation of testing solution	

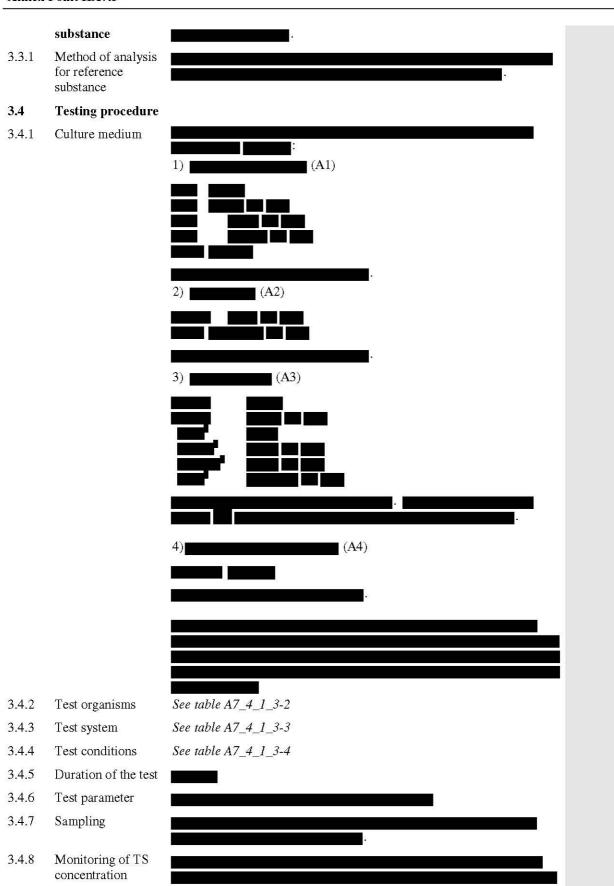
## Section A7.4.1.3 Growth inhibition test on algae

Annex Point IIA7.3

		1 REFERENCE	Official use only
1.1	Reference	Hafner C, 2007, Report: Algae, Growth Inhibition Test with Lauric acid, according to OECD 201 (2006), Report No. 540, Hydrotox, unpublished [151].	
1.2	Data protection	Yes	
1.2.1	Data owner	Dr. R. Pfleger Chemische Fabrik GmbH	
1.2.2	Criteria for data protection	Data submitted to the MS after 13 May 2000 on existing active substance for the purpose of its authorisation.	
		2 GUIDELINES AND QUALITY ASSURANCE	
2.1	Guideline study	Yes OECD-Test Guideline 201 (2006)	
2.2	GLP	Yes	
2.3	Deviations	No	
		3 MATERIALS AND METHODS	
3.1	Test material	ContraZeck	
3.1.1	Lot/Batch number	Batch number 47851	
3.1.2	Specification	As given in section B3 (Doc. III-B)	
3.1.3	Purity		
3.1.4	Composition of Product	As given in section B2 (Doc. III-B):	
3.1.5	Further relevant properties	-1	
3.1.6	Method of analysis		
3.2	Preparation of TS solution for poorly soluble or volatile test substances		
3.3	Reference		

## Section A7.4.1.3 Growth inhibition test on algae

#### **Annex Point IIA7.3**



# Section A7.4.1.3 Growth inhibition test on algae Annex Point IIA7.3

Effective

3.4.9 Statistics **RESULTS** 4.1 **Limit Test** Not performed 4.1.1 Concentration Not applicable, 4.1.2 Number/ Not applicable, percentage of animals showing adverse effects Results test 4.2 substance 4.2.1 Initial Nominal concentration: concentrations of test substance 4.2.2 Testing with alges: Actual concentrations of test substance [mg/L] Effective concentration of lauric acid Effective concentration of lauric acid

# Section A7.4.1.3 Growth inhibition test on algae Annex Point IIA7.3

concentration of lauric acid					
LOQ = 0.05  mg/l.	, n.d. = not	detected			
Testing withou	ut alges:				
nominal [mg/l]					
Effective concentration of lauric acid					
Effective concentration of lauric acid					
Effective concentration of lauric acid		В	=	==	

4.2.3 Growth curves



4.2.4 Concentration / response curve



## **Section A7.4.1.3**

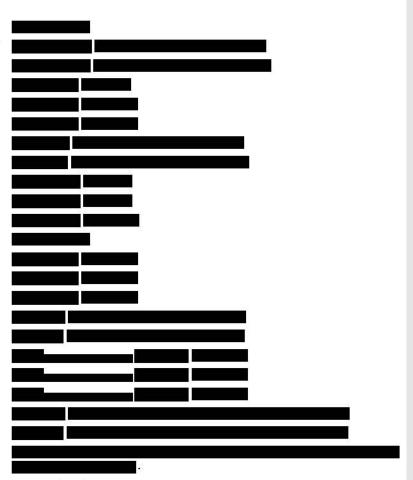
## Annex Point IIA7.3

## Growth inhibition test on algae



- 4.2.5 Cell concentration data
- 4.2.6 Effect data (cell multiplication inhibition)

See table A7\_4\_1\_3-5



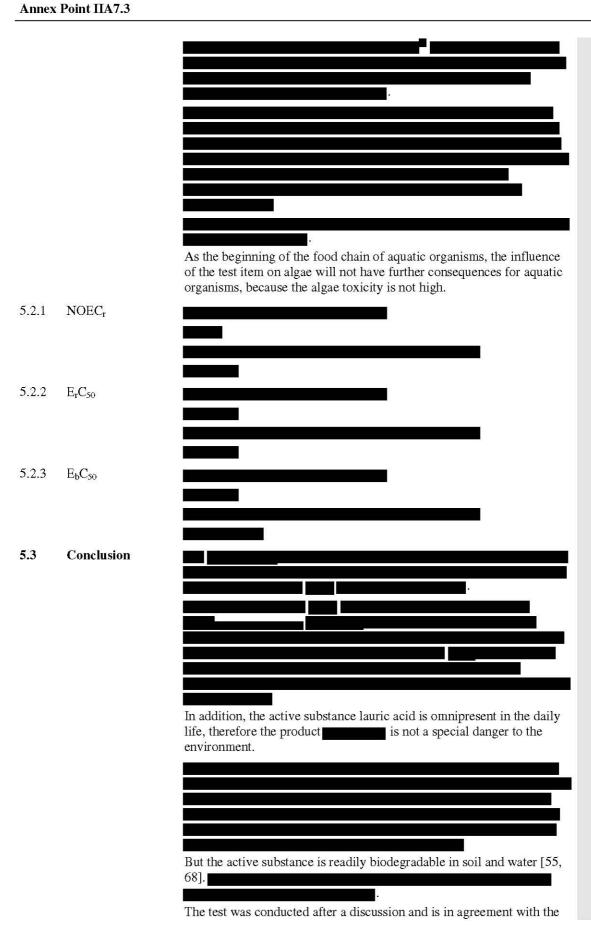
4.2.7 Other observed effects

Not applicable.

# Section A7.4.1.3 Growth inhibition test on algae Annex Point IIA7.3

4.4 Test with reference substance	_
4.4.1 Concentrations	
4.4.2 Results	
5 APPLICANT'S SUMMARY AND CONCLUSION	N
The test was conducted according to the OECD-Test Guidelin having discussed with and agreed by the German Umweltbund (Federal Environment Agency)	
	_
	_
	_
5.2 Results and	_
discussion	
	-
·	

# Section A7.4.1.3 Growth inhibition test on algae



# Section A7.4.1.3 Growth inhibition test on algae Annex Point IIA7.3

German Umweltbundesamt (Federal Environment Agency) and therefore no further studies are necessary.

5.3.1 Reliability 15.3.2 Deficiencies No

	Evaluation by Competent Authorities
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	Give date of action
Materials and Methods	State if the applicants version is acceptable or indicate relevant discrepancies referring to the (sub) heading numbers and to applicant's summary and conclusion.
Results and discussion	Adopt applicant's version or include revised version. If necessary, discuss relevant deviations from applicant's view referring to the (sub)heading numbers
Conclusion	Adopt applicant's version or include revised version
Reliability	Based on the assessment of materials and methods include appropriate reliability indicator
Acceptability	acceptable / not acceptable
	(give reasons if necessary, e.g. if a study is considered acceptable despite a poor reliability indicator. Discuss the relevance of deficiencies and indicate if repeat is necessary.)
Remarks	
	COMMENTS FROM
Date	Give date of comments submitted
Materials and Methods	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
Results and discussion	Discuss if deviating from view of rapporteur member state
Conclusion	Discuss if deviating from view of rapporteur member state
Reliability	Discuss if deviating from view of rapporteur member state
Acceptability	Discuss if deviating from view of rapporteur member state
Remarks	