

CA: DK

Section **Carcinogenicity**
A6.7/04/05/06/07/08/09 **Feeding Study in Mice**

Annex Point IIA, VI.6.7

3.4	Examinations		
3.4.1	Clinical signs	[REDACTED]	
3.4.2	Palpable masses	[REDACTED]	
3.4.3	Mortality	[REDACTED]	
3.4.4	Body weight	[REDACTED]	
3.4.5	Food consumption	[REDACTED]	
3.4.6	Water consumption	[REDACTED]	
3.4.7	Ophthalmoscopic examination	[REDACTED]	
3.4.8	Haematology	[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
3.4.9	Clinical Chemistry	[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
3.4.10	Urinalysis	[REDACTED]	[REDACTED]
3.4.11	Pathology	[REDACTED]	
3.4.11.1	Organ Weights	[REDACTED]	[REDACTED]
3.4.12	Histopathology	[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
		[REDACTED]	[REDACTED]
3.4.13	Other examinations	[REDACTED]	
3.5	Statistics	[REDACTED]	
		[REDACTED]	
3.6	Further remarks	none	

4 RESULTS AND DISCUSSION.

4.1 Clinical signs [REDACTED]

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Section **Carcinogenicity**
A6.7/04/05/06/07/08/09 **Feeding Study in Mice**
Annex Point IIA, VI.6.7

4.2	Mortality	[Redacted]
4.3	Body weight	[Redacted]
4.4	Food consumption	[Redacted]
4.5	Water consumption	[Redacted]
4.6	Ophthalmoscopic examination	[Redacted]
4.7	Haematology	[Redacted]
4.8	Clinical Chemistry	[Redacted]
4.9	Urinalysis	[Redacted]
4.10	Gross pathology	[Redacted]
4.11	Organ Weights	[Redacted]

CA: DK

Section **Carcinogenicity**
A6.7/04/05/06/07/08/09 **Feeding Study in Mice**
Annex Point IIA, VI.6.7

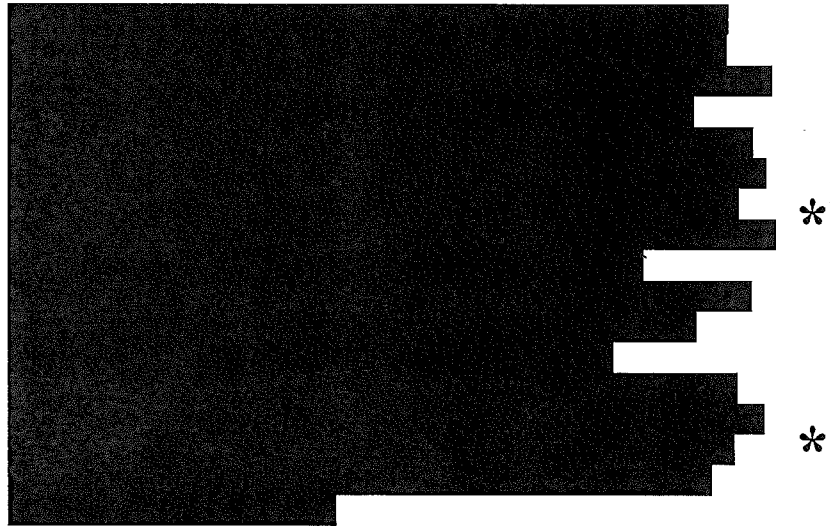
4.12 Histopathology –
 non-neoplastic
 findings

[REDACTED]

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Section **Carcinogenicity**
A6.7/04/05/06/07/08/09 **Feeding Study in Mice**
Annex Point IIA, VI.6.7

4.13 **Histopathology-
neoplastic findings**



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Section **Carcinogenicity**
A6.7/04/05/06/07/08/09 **Feeding Study in Mice**
Annex Point IIA, VI.6.7

5 **APPLICANT'S SUMMARY AND CONCLUSION**

5.1 **Materials and
 methods**

[Redacted text for 5.1 Materials and methods]

5.2 **Results and
 discussion**

[Redacted text for 5.2 Results and discussion]

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[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]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

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Section A6.8.1/01 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rabbit- Rangefinder



1 REFERENCE

Official
use only

1.1 Reference [Redacted] (1994): Omicide® (IPBC) Oral (Gavage) Rabbit
Developmental Toxicity Dose Ranging Study [Redacted]
[Redacted] 09.08.1994 [Redacted])

1.2 Data protection

1.2.1 Data owner

1.2.2 Companies with
letter of access

1.2.3 Criteria for data
protection

2 GUIDELINES AND QUALITY ASSURANCE

2.1 Guideline study No,
not necessary, rangefinding study

2.2 GLP

2.3 Deviations

3 MATERIALS AND METHODS

3.1 Test material

3.1.1 Lot/Batch number

3.1.2 Specification The purity of the test substance was slightly lower than the specification
given in section 2. This does not influence the integrity of the study.

3.1.3 Purity

3.1.4 Description

3.1.5 Stability



CA: DK

Section A6.8.1/01 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rabbit- Rangefinder

[Redacted]

3.2 Test Animals

3.2.1 Species rabbit

3.2.2 Strain New Zealand White

3.2.3 Source [Redacted]

3.2.4 Sex female

3.2.5 Age/weight at study initiation [Redacted]

[Redacted]

3.2.6 Number of animals per group [Redacted]

3.2.7 Control animals [Redacted]

[Redacted]

3.2.8 Mating period [Redacted]

[Redacted]

3.3 Administration/ Exposure

3.3.1 Duration of exposure [Redacted]

[Redacted] [Redacted] [Redacted]

*

3.3.2 Postexposure period [Redacted]

3.3.3 Type [Redacted]

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Section A6.8.1/01 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rabbit- Rangefinder

4 RESULTS AND DISCUSSION

4.1	Effects observed in MTD phase	[Redacted]
4.2	Maternal toxic Effects	[Redacted]
4.3	Maternal body weight	[Redacted]
4.4	Food consumption	[Redacted]
4.5	Maternal necropsy	[Redacted]
4.6	Organ weights	[Redacted]

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Section A6.8.1/01 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rabbit- Rangefinder

4.7 Pregnancy data

[Redacted]

4.8 Foetal and Gravid
 Uterus Weights

[Redacted]

[Redacted]

4.9 Teratogenic /
 embryotoxic
 effects

[Redacted]

4.10 Other effects

[Redacted]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and
 methods

In this range-finding study for a subsequent teratogenicity study in New Zealand White rabbits, the MTD was assessed in 5 non-mated females which were treated for 20 days via gavage with IPBC [Redacted]

[Redacted]

[Redacted]

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Section A6.8.1/01

Teratogenicity Study

Annex Point IIA, VI.6.8.1


Gavage Rabbit- Rangefinder

**5.2 Results and
discussion**

[REDACTED]

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Section A6.8.1/01 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rabbit- Rangefinder

5.3	Conclusion	
5.3.1	LO(A)EL maternal toxic effects	not applicable, dose range-finder
5.3.2	NO(A)EL maternal toxic effects	not applicable, dose range-finder
5.3.3	LO(A)EL embryotoxic / teratogenic effects	not applicable, dose range-finder
5.3.4	NO(A)EL embryotoxic / teratogenic effects	not applicable, dose range-finder
5.3.5	Reliability	■
5.3.6	Deficiencies	No

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Section A6.8.1/01 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rabbit- Rangefinder

[REDACTED]

	[REDACTED]					
[REDACTED]	■	■	■	■	■	+
[REDACTED]	■	■	■	■	■	
[REDACTED]	■	■	■	■	■	
[REDACTED]	■	■	■	■	■	
[REDACTED]	■	■	■	■	■	
[REDACTED]	■	■	■	■	■	
[REDACTED]	■	■	■	■	■	
[REDACTED]	■	■	■	■	■	
[REDACTED]	■	■	■	■	■	
[REDACTED]	■	■	■	■	■	

[REDACTED]

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Section A6.8.1/02 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rabbit

		Official use only
1 REFERENCE		
1.1	Reference	█
	█ (1994) █ Omacide® (IPBC) Oral (Gavage) Rabbit Developmental Toxicity Study; █ 16.11.1994;	
1.2	Data protection	█
1.2.1	Data owner	█
1.2.2	Companies with letter of access	█
1.2.3	Criteria for data protection	█
2 GUIDELINES AND QUALITY ASSURANCE		
2.1	Guideline study	█
	Yes, US EPA guideline 83-3 (1984) and OECD 414 (1981)	
2.2	GLP	█
2.3	Deviations	no
3 MATERIALS AND METHODS		
3.1	Test material	█
3.1.1	Lot/Batch number	█
3.1.2	Specification	The purity of the test substance was slightly lower than the specification given in section 2. This does not influence the integrity of the study.
3.1.3	Purity	█
3.1.4	Description	█
3.1.5	Stability	█
3.2	Test Animals	█
3.2.1	Species	rabbit
3.2.2	Strain	New Zealand White
3.2.3	Source	█
3.2.4	Sex	female
3.2.5	Age/weight at study initiation	█
3.2.6	Number of animals per group	█
3.2.7	Control animals	█
3.2.8	Mating period	█
3.3	Administration/Exposure	Oral

CA: DK

Section A6.8.1/02 Teratogenicity Study

Annex Point IIA, VI.6.8.1 Gavage Rabbit

4.2 Pregnancy data

[REDACTED]

[REDACTED]

4.3 Teratogenic /
embryotoxic
effects

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and
methods

[REDACTED]

The study was conducted in accordance to OECD 414 (adopted 1981) and to US EPA guideline 83-3 (adopted 1984).

5.2 Results and
discussion

[REDACTED]

CA: DK

Section A6.8.1/02 Teratogenicity Study**Annex Point IIA, VI.6.8.1 Gavage Rabbit**

5.3	Conclusion	
5.3.1	LO(A)EL maternal toxic effects	20 mg/kg bw/day, one death at 20 mg/kg bw/day and 4 at 40 mg/kg bw/day due to local stomach irritation which resulted in refusal to eat and consequently body weight loss
5.3.2	NO(A)EL maternal toxic effects	10 mg/kg bw/day
5.3.3	LO(A)EL embryotoxic / teratogenic effects	>40 mg/kg bw/day
5.3.4	NO(A)EL embryotoxic / teratogenic effects	40 mg/kg bw/day
5.3.5	Reliability	■
5.3.6	Deficiencies	No

CA: DK

[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]	[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]

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Section A6.8.1/03 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rat dose-rangefinder

		Official use only
1 REFERENCE		
1.1	Reference	█
	█ (1994): Omacide® (IPBC) Oral (Gavage) Rat Developmental Toxicity Dose Ranging Study; █ █ 09.08.1994 █	
1.2	Data protection	█
1.2.1	Data owner	█
1.2.2	Companies with letter of access	█
1.2.3	Criteria for data protection	█
2 GUIDELINES AND QUALITY ASSURANCE		
2.1	Guideline study	No, not necessary range-finder
2.2	GLP	█
2.3	Deviations	█
3 MATERIALS AND METHODS		
3.1	Test material	█
3.1.1	Lot/Batch number	█
3.1.2	Specification	The purity of the test substance was slightly lower than the specification given in section 2. This does not influence the integrity of the study.
3.1.3	Purity	█
3.1.4	Description	█
3.1.5	Stability	█
3.2	Test Animals	
3.2.1	Species	rat
3.2.2	Strain	Sprague-Dawley (CrI:CD(SD)BR strain (VAF plus)
3.2.3	Source	█
3.2.4	Sex	female
3.2.5	Age/weight at study initiation	█
3.2.6	Number of animals per group	█
3.2.7	Control animals	█
3.2.8	Mating period	█
3.3	Administration/Exposure	█
3.3.1	Duration of exposure	█
3.3.2	Postexposure period	█
3.3.3	Type	Gavage
3.3.4	Concentration	█
3.3.5	Vehicle	█

CA: DK

Section A6.8.1/03 **Teratogenicity Study**
Annex Point IIA, VI.6.8.1 **Gavage Rat dose-rangefinder**

3.3.6	Concentration in vehicle	[REDACTED]	
3.3.7	Total volume applied	[REDACTED]	
3.3.8	Controls	[REDACTED]	
3.4	Examinations		
3.4.1	Clinical signs	[REDACTED]	
3.4.2	Body weight	[REDACTED]	
3.4.3	Food consumption	[REDACTED]	*
3.4.4	Examination of uterine content	[REDACTED]	
3.4.5	Examination of foetuses		
3.4.5.1	General	[REDACTED]	
3.4.5.2	Skelet	[REDACTED]	
3.4.5.3	Soft tissue	[REDACTED]	
3.5	Further remarks	[REDACTED]	
3.6	Statistics	[REDACTED]	

CA: DK

Section A6.8.1/03 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rat dose-rangefinder

4 RESULTS AND DISCUSSION

**4.1 Maternal toxic
Effects**

[Redacted text block for 4.1 Maternal toxic Effects]

4.2 Pregnancy data

[Redacted text block for 4.2 Pregnancy data]

**4.3 Teratogenic /
embryotoxic
effects**

[Redacted text block for 4.3 Teratogenic / embryotoxic effects]

CA: DK

Section A6.8.1/03 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rat dose-rangefinder

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

In this teratogenicity range-finding study, group of 5 females were treated via gavage with IPBC

[REDACTED]

5.2 Results and discussion

[REDACTED]

5.3 Conclusion

[REDACTED]

- 5.3.1 LO(A)EL maternal toxic effects not applicable, dose range-finder
- 5.3.2 NO(A)EL maternal toxic effects not applicable, dose range-finder
- 5.3.3 LO(A)EL embryotoxic / teratogenic effects not applicable, dose range-finder
- 5.3.4 NO(A)EL embryotoxic / teratogenic effects not applicable, dose range-finder
- 5.3.5 Reliability ■
- 5.3.6 Deficiencies No

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Section A6.8.1/03 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rat dose-rangefinder

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Reliability	[REDACTED]
Acceptability	[REDACTED]
Remarks	[REDACTED]

CA: DK

Section A6.8.1/04 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rat

		Official use only
1 REFERENCE		
1.1	Reference	
	[REDACTED] (1994): Omacide® (IPBC) Oral (gavage) Rat Developmental Toxicity (Teratogenicity) Study; [REDACTED] 09.08.1994; [REDACTED]	[REDACTED]
1.2	Data protection	[REDACTED]
1.2.1	Data owner	[REDACTED]
1.2.2	Companies with letter of access	[REDACTED]
1.2.3	Criteria for data protection	[REDACTED]
2 GUIDELINES AND QUALITY ASSURANCE		
2.1	Guideline study	
	Yes, US EPA guideline Subdivision F: 83-3 (1984) OECD 414 (1981)	[REDACTED]
2.2	GLP	[REDACTED]
2.3	Deviations	No
3 MATERIALS AND METHODS		
3.1	Test material	[REDACTED]
3.1.1	Lot/Batch number	[REDACTED] *
3.1.2	Specification	The purity of the test substance was slightly lower than the specification given in section 2. This does not influence the integrity of the study.
3.1.3	Purity	[REDACTED]
3.1.4	Description	[REDACTED]
3.1.5	Stability	[REDACTED]
3.2	Test Animals	
3.2.1	Species	rat
3.2.2	Strain	Sprague-Dawley Crl:CD(SD)BR strain (VAF plus)
3.2.3	Source	[REDACTED]
3.2.4	Sex	female
3.2.5	Age/weight at study initiation	[REDACTED]

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Section A6.8.1/04 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rat

4 RESULTS AND DISCUSSION

4.1 Maternal toxic
Effects

[Redacted text block for 4.1 Maternal toxic Effects]

4.2 Pregnancy data

[Redacted text block for 4.2 Pregnancy data]

4.3 Teratogenic /
embryotoxic
effects

[Redacted text block for 4.3 Teratogenic / embryotoxic effects]

CA: DK

Section A6.8.1/04 Teratogenicity Study
Annex Point IIA, VI.6.8.1 Gavage Rat

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

[REDACTED]

5.2 Results and discussion

[REDACTED]

*

5.3 Conclusion

5.3.1 LO(A)EL maternal toxic effects 75 mg/kg bw/day, reduced body weight gain and food consumption

CA: DK

Section A6.8.1/04 Teratogenicity Study**Annex Point IIA, VI.6.8.1 Gavage Rat**

5.3.2	NO(A)EL maternal toxic effects	25 mg/kg bw/day
5.3.3	LO(A)EL embryotoxic / teratogenic effects	250 mg/kg bw/day, reduced female foetal weight, increased incidence in minor skeletal anomalies and not ossified 5 th sternebrae
5.3.4	NO(A)EL embryotoxic / teratogenic effects	75 mg/kg bw/day
5.3.5	Reliability	■
5.3.6	Deficiencies	No

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

		Official use only
		1 REFERENCE
1.1 Reference	<p>A6.8.2/01: [REDACTED] (1996): Omacide® (IPBC) Oral (Gavage) Rat One-Generation (Expanded to Two-Generation) Reproductive Toxicity Study; [REDACTED] 30.07.1996 [REDACTED]</p> <p>A6.8.2/02: [REDACTED] (2003): Historical control data - Reprotoxicity study in rats (Background Pregnancy Data from Multigeneration, Fertility and Pre- and Post Natal Studies on the Sprague-Dawley rat [REDACTED] [REDACTED] 31.09.2003 [REDACTED]</p>	[REDACTED]
1.2 Data protection	[REDACTED]	
1.2.1 Data owner	[REDACTED]	
1.2.2 Companies with letter of access	[REDACTED]	
1.2.3 Criteria for data protection	[REDACTED]	
		2 GUIDELINES AND QUALITY ASSURANCE
2.1 Guideline study	<p>A6.8.2/01: Yes, US EPA guideline Subdivision F 83-4 (1982) OECD 415 (1983) The method described in the report are comparable to current OECD 416 (adopted 2001) because the study was expanded to a second generation.</p> <p>A6.8.2/02: No, not applicable, historical control data</p>	[REDACTED]
2.2 GLP	[REDACTED]	
2.3 Deviations	None	
		3 MATERIALS AND METHODS
3.1 Test material	[REDACTED]	
3.1.1 Lot/Batch number	[REDACTED]	
3.1.2 Specification	The purity of the test substance was slightly lower than the specification given in section 2. This dose not influence the integrity of the study.	
3.1.3 Purity	[REDACTED]	
3.1.4 Description	[REDACTED]	
3.1.5 Stability	[REDACTED]	

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

3.2	Test Animals	
3.2.1	Species	rat
3.2.2	Strain	Sprague-Dawley CrI:CD(SD)BR VAF plus strain
3.2.3	Source	[REDACTED]
3.2.4	Sex	male, female
3.2.5	Age/weight at study initiation	[REDACTED]
3.2.6	Number of animals per group	[REDACTED]
3.2.7	Mating	[REDACTED]
3.2.8	Duration of mating	[REDACTED]
3.2.9	Deviations from standard protocol	[REDACTED]
3.2.10	Control animals	[REDACTED]
3.3	Administration/ Exposure	Oral, gavage
3.3.1	Animal assignment to dosage groups	[REDACTED]
3.3.2	Duration of exposure before mating	F ₀ animals: 10 weeks F ₁ animals: about 13 weeks
3.3.3	Duration of exposure in general P, F1, F2 males, females	[REDACTED]
3.3.4	Type	[REDACTED]
3.3.5	Concentration	[REDACTED]
3.3.6	Vehicle	[REDACTED]
3.3.7	Concentration in vehicle	[REDACTED]
3.3.8	Total volume applied	[REDACTED]
3.3.9	Controls	[REDACTED]
3.4	Examinations	
3.4.1	Clinical signs	[REDACTED]
3.4.2	Mortality	[REDACTED]

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

3.4.3	Body weight	[Redacted]
3.4.4	Food consumption	[Redacted]
3.4.5	Oestrus cycle	[Redacted]
3.4.6	Sperm parameters	[Redacted]
3.4.7	Offspring	[Redacted]
3.4.8	Organ weights F ₀ and F ₁	[Redacted]
3.4.9	Histopathology F1	[Redacted]
3.4.10	Histopathology F1 not selected for mating, F2	[Redacted]

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study

Annex Point IIA, VI.6.8.2 Gavage Rat

3.5	Further investigations	[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
3.6	Statistics	[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
[REDACTED]		

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

4.1.2 F1 parents

[Redacted]

*

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

4.2 Oestrus cycle

[Redacted]

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

4.3 Fertility and
 mating
 performance

[Redacted text block]

[Redacted text block]

*

4.4 Gestation,
 parturition and
 lactation

[Redacted text block]

[Redacted text block]

4.5 Pregnancy data

[Redacted text block]

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

4.6 Pathology

4.6.1 Gross and histopathology

[REDACTED]

*

4.6.2 Sperm parameters

[REDACTED]

4.6.3 Organ weights

[REDACTED]

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

4.7 Litter observations

4.7.1 Number and sexes of pups born

[Redacted]

[Redacted]

*

*

4.7.2 Pup body weight

[Redacted]

[Redacted]

*

[Redacted]

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

4.7.3 Litter development
 observations

[REDACTED]

[REDACTED]

4.7.4 Pup clinical
 observation and
 necropsy findings
 during lactation

[REDACTED]

[REDACTED]

[REDACTED]

*

4.7.5 Necropsy findings
 of weaned pups

[REDACTED]

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

5 APPLICANT'S SUMMARY AND CONCLUSION

**5.1 Materials and
 methods**

[REDACTED]

*

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

5.2 Results and
 discussion

[REDACTED]

*
*
*
*

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

			*
5.3	Conclusion		
5.3.1	LO(A)EL _{parental}		
5.3.1.1	F ₀ males	30 mg/kg bw/day, clinical signs	
5.3.1.2	F ₀ females	30 mg/kg bw/day, clinical signs	
5.3.1.3	F ₁ males	30 mg/kg bw/day, clinical signs	
5.3.1.4	F ₁ females	30 mg/kg bw/day, clinical signs	
5.3.2	NO(A)EL _{parental}		
5.3.2.1	F ₀ males	10 mg/kg bw/day	
5.3.2.2	F ₀ females	10 mg/kg bw/day	
5.3.2.3	F ₁ males	10 mg/kg bw/day	
5.3.2.4	F ₁ females	10 mg/kg bw/day	
5.3.3	LO(A)EL _{developmental}	100 mg/kg bw/day, reduced live birth index, reduced pup survival during the first 4 days of lactation, increased incidence of missing pups	*
5.3.4	NO(A)EL _{developmental}	30 mg/kg bw/day	*
5.3.5	LO(A)EL _{reproduction}	> 100 mg/kg bw/day, no effects on reproductive parameters	*
5.3.6	NO(A)EL _{reproduction}	100 mg/kg bw/day	*
5.3.7	Reliability	█	
5.3.8	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	█
Materials and Methods	█ █

CA: DK

Section A6.8.2/01/02 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat

Results and discussion

[Redacted content]

CA: DK

The table is a grid with approximately 15 columns and 15 rows. The top row contains several large black redaction blocks. The second row contains a large black redaction block on the left, followed by several columns of data points, some of which are redacted. The remaining rows contain a mix of data points and redactions. The data points are represented by small black squares and lines of varying sizes and positions within the grid cells.

IPBC Task Force

3-Iodopropynylbutyl Carbamate
(IPBC)

July 2006

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CA: DK

The table consists of approximately 12 columns and 15 rows. The data is heavily redacted with black bars. The redactions vary in size and shape, covering most of the content within each cell. Some cells contain small, distinct black marks or symbols, such as vertical bars or small squares, which may represent specific data points or indicators. The overall layout is a grid where the majority of the information has been obscured for security or privacy reasons.

CA: DK

The table consists of approximately 10 columns and 10 rows. The top row is almost entirely redacted with a thick black bar. The second row contains several small blacked-out rectangular blocks. The remaining rows contain a mix of blacked-out blocks and some visible text fragments, such as 'IPBC' and 'CA: DK'. The redaction is extensive, covering the majority of the data presented in the table.

CA: DK

Section A6.8.2/03 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Feeding Rat Rangefinder

		Official use only
1 REFERENCE		
1.1	Reference	
	[REDACTED] (1986); Troysan Polyphase – Preliminary Study for a 2 Generation Oral Reproduction Study in the Male Sprague Dawley Rat; [REDACTED] [REDACTED] 18.12.86 [REDACTED]	[REDACTED]
1.2	Data protection	[REDACTED]
1.2.1	Data owner	[REDACTED]
1.2.2	Companies with letter of access	[REDACTED]
1.2.3	Criteria for data protection	[REDACTED]
2 GUIDELINES AND QUALITY ASSURANCE		
2.1	Guideline study	No, this study is only a rangefinder
2.2	GLP	[REDACTED] [REDACTED]
2.3	Deviations	Not applicable
2.4	Further remarks	
3 MATERIALS AND METHODS		
3.1	Test material	[REDACTED]
3.1.1	Lot/Batch number	[REDACTED]
3.1.2	Specification	The purity of the test substance was slightly lower than the specification given in section 2. This does not influence the integrity of the study.
3.1.3	Purity	[REDACTED]
3.1.4	Description	[REDACTED]
3.1.5	Stability	[REDACTED]
3.2	Test Animals	
3.2.1	Species	rat
3.2.2	Strain	Sprague-Dawley CrI:CD(SD)BR
3.2.3	Source	[REDACTED]
3.2.4	Sex	Male
3.2.5	Age/weight at study initiation	[REDACTED] *
3.2.6	Number of animals per group	[REDACTED]
3.2.7	Control animals	[REDACTED]
3.3	Administration/ Exposure	Oral
3.3.7	Duration of treatment	[REDACTED]
3.3.8	Frequency of exposure	[REDACTED]
3.3.9	Type	In food
3.3.10	Vehicle	[REDACTED]

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Section A6.8.2/03 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Feeding Rat Rangefinder

- 3.3.11 Concentration in vehicle
- 3.4 Examinations
- 3.4.7 Observations
- 3.4.7.1 Clinical signs
- 3.4.7.2 Mortality
- 3.4.8 Body weight
- 3.4.9 Food consumption
- 3.4.10 Water consumption
- 3.5 Further remarks

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

4 RESULTS AND DISCUSSION

- 4.1 Observations
- 4.1.7 Clinical signs
- 4.1.8 Mortality
- 4.2 Body weight gain
- 4.3 Food consumption

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

- 5.1 Materials and methods
- 5.2 Results and discussion
- 5.3 Conclusion
- 5.3.7 LOEL
- 5.3.8 NOAEL
- 5.3.9 Other
- 5.3.10 Reliability
- 5.3.11 Deficiencies

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

*

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPOREUR MEMBER STATE	
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Reliability	[REDACTED]

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Section A6.8.2/03 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Feeding Rat Rangefinder

Acceptability	[REDACTED]
Remarks	[REDACTED]

CA: DK

Section A6.8.2/04 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat Rangefinder

		1 REFERENCE	Official use only
1.1	Reference	[REDACTED] (1986): Troysan Polyphase – Preliminary Study for a 2 Generation Oral Reproduction Study in the Female Sprague Dawley Rat; [REDACTED] 18.12.86 [REDACTED]	[REDACTED]
1.2	Data protection	[REDACTED]	
1.2.9	Data owner	[REDACTED]	
1.2.10	Companies with letter of access	[REDACTED]	
1.2.11	Criteria for data protection	[REDACTED]	
		2 GUIDELINES AND QUALITY ASSURANCE	
2.1	Guideline study	[REDACTED] a rangefinding study	
2.2	GLP	[REDACTED]	
2.3	Deviations	Not applicable	
2.4	Further remarks		
		3 MATERIALS AND METHODS	
3.1	Test material	[REDACTED]	
3.1.1	Lot/Batch number	[REDACTED]	
3.1.2	Specification	The purity of the test substance was slightly lower than the specification given in section 2. This does not influence the integrity of the study.	
3.1.3	Purity	[REDACTED]	
3.1.4	Description	[REDACTED]	
3.1.5	Stability	[REDACTED]	
3.2	Test Animals		
3.2.1	Species	rat	
3.2.2	Strain	Sprague-Dawley CrI:CD(SD)BR	
3.2.3	Source	[REDACTED]	
3.2.4	Sex	Female	
3.2.5	Age/weight at study initiation	[REDACTED]	*
3.2.6	Number of animals per group	[REDACTED]	
3.2.7	Mating	[REDACTED]	
3.2.8	Control animals	[REDACTED]	

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Section A6.8.2/04 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat Rangefinder

3.3	Administration/ Exposure	Oral	
3.3.1	Duration of exposure	[REDACTED]	
3.3.2	Type	[REDACTED]	
3.3.3	Vehicle	[REDACTED]	
3.3.4	Concentration in vehicle	[REDACTED]	
3.3.5	Concentration in vehicle	[REDACTED]	
3.3.6	Total volume applied	[REDACTED]	*
3.4	Examinations		
3.4.1	Clinical signs	[REDACTED]	
3.4.2	Mortality	[REDACTED]	
3.4.3	Body weight	[REDACTED]	
		[REDACTED]	
3.4.4	Terminal examination	[REDACTED]	
3.5	Statistics	[REDACTED]	
		4 RESULTS AND DISCUSSION	
4.1	Clinical signs	[REDACTED]	
4.2	Mortality	[REDACTED]	
4.3	Body weight	[REDACTED]	
4.4	Terminal examinations	[REDACTED]	
		[REDACTED]	

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Section A6.8.2/04 Multigeneration Reproduction Toxicity Study
Annex Point IIA, VI.6.8.2 Gavage Rat Rangefinder

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

[REDACTED]

5.2 Results and discussion

[REDACTED]

5.3 Conclusion

[REDACTED]

5.3.1 Reliability

[REDACTED]

5.3.2 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

[REDACTED]

Materials and Methods

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Results and discussion

[REDACTED]

Conclusion

[REDACTED]

Reliability

[REDACTED]

Acceptability

[REDACTED]

Remarks

CA: DK

Section **Multigeneration Reproduction Toxicity Study**
A6.8.2/05/06/07 **Feeding study in rats**
Annex Point IIA, VI.6.8.2

	1 REFERENCE	Official use only
1.1 Reference	<p>A6.8.2/05: [REDACTED] (1987): Troysan Polyphase – Two Generation Oral (Dietary Administration) Reproduction Toxicity Study in the Rat (one Litter per Generation) [REDACTED] [REDACTED] 16.10.1987 [REDACTED]</p> <p>A6.8.2/06: [REDACTED] (2004): Historical Control Data of Two/One Generation Oral (Dietary Administration) Reproduction Toxicity Studies 1984 to 1990; [REDACTED]; 26.03.2004 [REDACTED]</p> <p>A6.8.2/07: [REDACTED] (2004): To Whom It May Concern – IPBC purity [REDACTED] [REDACTED] 26.03.2004 [REDACTED]</p>	[REDACTED]
1.2 Data protection	[REDACTED]	
1.2.1 Data owner	[REDACTED]	
1.2.2 Companies with letter of access	[REDACTED]	
1.2.3 Criteria for data protection	[REDACTED]	
	2 GUIDELINES AND QUALITY ASSURANCE	
2.1 Guideline study	<p>A6.8.2/05: Yes, US EPA guideline Subdivision F 83-4 (1982) The method described in the report is comparable to current OECD 416 (adopted 2001)*</p> <p>A6.8.2/06 and A6.8.2/07: No, not applicable</p>	[REDACTED]
2.2 GLP	[REDACTED]	*
2.3 Deviations	<p>A6.8.2/05: No</p> <p>A6.8.2/06 and A6.8.2/07: Not applicable</p>	*
2.4 Further remarks	[REDACTED]	
	3 MATERIALS AND METHODS	
3.1 Test material	[REDACTED]	
3.1.1 Lot/Batch number	[REDACTED]	
3.1.2 Specification	The purity of the test substance was slightly lower than the specification	

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Section
A6.8.2/05/06/07
Annex Point IIA, VI.6.8.2

Multigeneration Reproduction Toxicity Study
Feeding study in rats

given in section 2. This does not influence the integrity of the study.

- 3.1.3 Purity [redacted]
- 3.1.4 Description [redacted]
- 3.1.5 Stability [redacted] *

3.2 Test Animals

- 3.2.1 Species rat
- 3.2.2 Strain Sprague-Dawley CrI:CD(SD)BR
- 3.2.3 Source [redacted]
- 3.2.4 Sex male, female
- 3.2.5 Age/weight at study initiation [redacted]
- 3.2.6 Number of animals per group [redacted]
- 3.2.7 Mating [redacted]
- 3.2.8 Duration of mating [redacted]
- 3.2.9 Control animals [redacted]

3.3 Administration/ Exposure

- 3.3.1 Duration of exposure before mating [redacted]
- 3.3.2 Duration of exposure in general P, F1, F2 males, females [redacted]
- 3.3.3 Type In food
- 3.3.4 Vehicle [redacted]
- 3.3.5 Concentration in vehicle [redacted]
- 3.3.6 Controls [redacted]

3.4 Examinations

- 3.4.1 Clinical signs [redacted]
- 3.4.2 Mortality [redacted]

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Section
A6.8.2/05/06/07
Annex Point IIA, VI.6.8.2

Multigeneration Reproduction Toxicity Study
Feeding study in rats

3.4.3	Body weight	[Redacted]
3.4.4	Food consumption	[Redacted]
3.4.5	Oestrus cycle	[Redacted]
3.4.6	Sperm parameters	[Redacted]
3.4.7	Offspring	[Redacted]
3.4.8	Organ weights F ₀ and F ₁	[Redacted]
3.4.9	Histopathology F ₁	[Redacted] *
3.4.10	Histopathology F1 not selected for mating, F2	[Redacted]
3.5	Further investigations	[Redacted]
3.6	Statistics	[Redacted]

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Section
A6.8.2/05/06/07

Multigeneration Reproduction Toxicity Study
Feeding study in rats

Annex Point IIA, VI.6.8.2

4 RESULTS AND DISCUSSION

4.1 Parental effects

4.1.1 F₀ animals

[REDACTED]

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Section

A6.8.2/05/06/07

Annex Point IIA, VI.6.8.2

Multigeneration Reproduction Toxicity Study

Feeding study in rats

4.1.2 F₁ parents

[Redacted text block for 4.1.2 F₁ parents]

4.2 Fertility and mating performance

[Redacted text block for 4.2 Fertility and mating performance]

4.3 Gestation, parturition and lactation

[Redacted text block for 4.3 Gestation, parturition and lactation]

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Section

A6.8.2/05/06/07

Annex Point IIA, VI.6.8.2

Multigeneration Reproduction Toxicity Study

Feeding study in rats

4.4 Litter observations

4.4.1 Number and sexes of pups born

[REDACTED]

4.4.2 Pup body weight

[REDACTED]

4.4.3 Litter development observations

[REDACTED]

4.4.4 Pup clinical observation and necropsy findings

[REDACTED]

CA: DK

Section
A6.8.2/05/06/07

Multigeneration Reproduction Toxicity Study
Feeding study in rats

Annex Point IIA, VI.6.8.2

4.4.5 Histopathological
examinations

[REDACTED]

[REDACTED]

[REDACTED]

5.1 **Materials and
methods**

5 APPLICANT'S SUMMARY AND CONCLUSION

In an 2-generation reprotoxicity study Sprague-Dawley rats
(25/sex/group) were treated via food with IPBC [REDACTED]

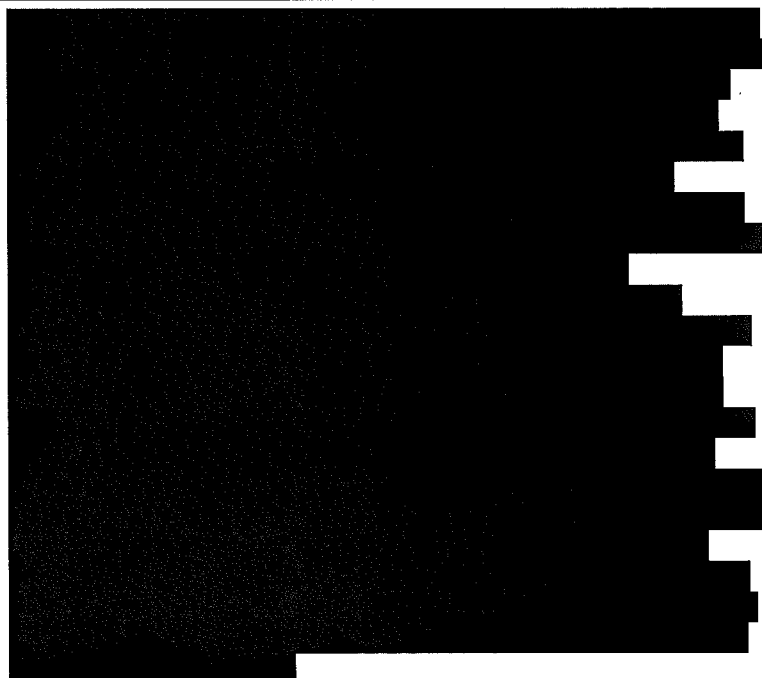
[REDACTED]

[REDACTED] *

[REDACTED] *

The study conduction was comparable to OECD 414 (2-generation reprotoxicity study).

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Section**A6.8.2/05/06/07****Annex Point IIA, VI.6.8.2****Multigeneration Reproduction Toxicity Study****Feeding study in rats****5.2 Results and discussion****5.3 Conclusion**5.3.1 LO(A)EL_{parental}

5.3.1.1 F ₀ males	300 ppm (equivalent to 50.5 mg/kg bw/day), based on reduced body weight gain and food consumption	*
------------------------------	---	---

5.3.1.2 F ₀ females	300 ppm (equivalent to 49.8 to 101.2 mg/kg bw/day), based on reduced body weight gain	*
--------------------------------	---	---

5.3.1.3 F ₁ males	300 ppm (equivalent to 62.8 mg/kg bw/day), based on reduced body weight gain and food consumption	*
------------------------------	---	---

5.3.1.4 F ₁ females	300 ppm (equivalent to 52.7 to 90.4 mg/kg bw/day), based on reduced body weight gain	*
--------------------------------	--	---

5.3.2 NO(A)EL_{parental}

5.3.2.1 F ₀ males	120 ppm (equivalent to 20.7 mg/kg bw/day)	*
------------------------------	---	---

5.3.2.2 F ₀ females	120 ppm (equivalent to 20.2 to 39.6 mg/kg bw/day)	*
--------------------------------	---	---

5.3.2.3 F ₁ males	120 ppm (equivalent to 26.1 mg/kg bw/day)	*
------------------------------	---	---

5.3.2.4 F ₁ females	120 ppm (equivalent to 20.3 to 34.0 mg/kg bw/day)	*
--------------------------------	---	---

5.3.3 LO(A)EL _{developmental}	>750 ppm (equivalent to 49.8 to 101.2 mg/kg bw/day)	*
--	---	---

5.3.4 NO(A)EL _{developmental}	> 750 ppm (equivalent to 49.8 to 101.2 mg/kg bw/day)	*
--	--	---

5.3.5 LO(A)EL _{reproduction}	>750 ppm (equivalent to 49.8 to 101.2 mg/kg bw/day)	*
---------------------------------------	---	---

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Section **Multigeneration Reproduction Toxicity Study**
A6.8.2/05/06/07 **Feeding study in rats**
Annex Point IIA, VI.6.8.2

[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]

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Section A6.9/01

Neurotoxicity

Annex Point IIIA, VI.1

Acute, Gavage, Rats, Range-finding study

		1 REFERENCE	Official use only
1.1	Reference	[REDACTED] [REDACTED] (2002): Acute Oral Dose Range-Finding Study with 3-Iodopropynylbutyl Carbamate (IPBC) Administered by Gavage in CD® Rats. [REDACTED] 12.04.2002 [REDACTED]	[REDACTED] [REDACTED]
1.2	Data protection	[REDACTED]	
1.2.1	Data owner	[REDACTED]	
1.2.2	Companies with letter of access	[REDACTED]	
1.2.3	Criteria for data protection	[REDACTED]	
		2 GUIDELINES AND QUALITY ASSURANCE	
2.1	Guideline study	n.a., range finding study	
2.2	GLP	[REDACTED] [REDACTED]	
2.3	Deviations	[REDACTED]	
		3 MATERIALS AND METHODS	
3.1	Test material	[REDACTED]	
3.1.1	Lot/Batch number	[REDACTED]	
3.1.2	Specification	As given in section 2	
3.1.3	Purity	[REDACTED]	
3.1.4	Description	[REDACTED]	
3.1.5	Stability	[REDACTED]	
3.2	Reference Substance (positive control)	[REDACTED]	

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Section A6.9/01

Neurotoxicity

Annex Point IIIA, VI.1

Acute, Gavage, Rats, Range-finding study

3.3 Test Animals

- 3.3.1 Species
- 3.3.2 Strain
- 3.3.3 Source
- 3.3.4 Sex
- 3.3.5 Rearing conditions
- 3.3.6 Age/weight at study initiation

CD® rats
CrI:CD® (SD) IGS BR
[Redacted]
male and female
[Redacted]
[Redacted]
[Redacted]

- 3.3.7 Number of animals per group
- 3.3.8 Control animals

[Redacted]
[Redacted]

3.4 Administration

Oral by gavage

- 3.4.1 Exposure
- 3.4.2 Dose Levels

Single oral administration
[Redacted]
[Redacted]

- 3.4.3 Vehicle
- 3.4.4 Concentration in vehicle
- 3.4.5 Total volume applied
- 3.4.6 Postexposure period

[Redacted]
[Redacted]
[Redacted]
[Redacted]
[Redacted]

- 3.4.7 Anticholinergic substances used
- 3.4.8 Controls

[Redacted]
[Redacted]

3.5 Examinations

- 3.5.1 Body Weight

[Redacted]
[Redacted]

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Section A6.9/01

Neurotoxicity

Annex Point IIIA, VI.1

Acute, Gavage, Rats, Range-finding study

3.5.2 Signs of Toxicity

[REDACTED]

3.5.3 Observation schedule

[REDACTED]

3.5.4 Clinical Chemistry

[REDACTED]

3.5.5 Pathology

[REDACTED]

3.5.6 Histopathology

[REDACTED]

3.6 Further remarks

[REDACTED]

4 RESULTS AND DISCUSSION

4.1 Body Weight

[REDACTED]

CA: DK

Section A6.9/01

Neurotoxicity

Annex Point IIIA, VI.1

Acute, Gavage, Rats, Range-finding study

4.2 Clinical signs of toxicity

[REDACTED]

4.3 Clinical Chemistry

[REDACTED]

4.4 Pathology

[REDACTED]

4.5 Histopathology

[REDACTED]

4.6 Other

[REDACTED]

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Section A6.9/01
Annex Point IIIA, VI.1


Neurotoxicity
Acute, Gavage, Rats, Range-finding study

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods



The study was designed as a range-finding study and followed in principle OPPTS 870.6200 (Neurotoxicity Screening Battery).



5.2 Results and discussion



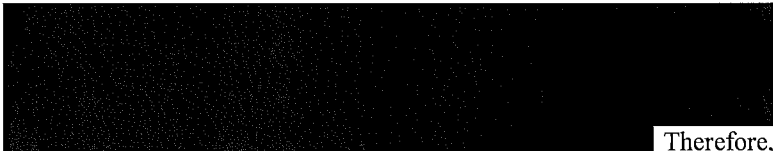
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Section A6.9/01

Neurotoxicity

Annex Point IIIA, VI.1

Acute, Gavage, Rats, Range-finding study

5.3	Conclusion	 Therefore, for the estimation of the time to peak effect the metabolic profile of IPBC has to be considered.
5.3.1	LOAEL	n.a., dose-range-finding study
5.3.2	NOAEL	n.a., dose-range-finding study
5.3.3	Reliability	█
5.3.4	Deficiencies	No (range-finding study)

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	
Materials and Methods	
Results and discussion	
Conclusion	
Reliability	█
Acceptability	
Remarks	

CA: DK

Section A6.9/02/03/04 Neurotoxicity Annex Point IIIA, VI.1 Acute, Gavage, Rats

	1 REFERENCE	Official use only
1.1 Reference	A6.9/02: [redacted] (2011): Acute Oral Neurotoxicity Study with 3-Iodopropynylbutyl Carbamate (IPBC) Administered by Gavage in CD® Rats. Volume I of III. [redacted] 31.08.2001 [redacted]	[redacted] [redacted]
	A6.9/03: [redacted] (2011): Acute Oral Neurotoxicity Study with 3-Iodopropynylbutyl Carbamate (IPBC) Administered by Gavage in CD® Rats. Volume II of III. [redacted] 31.08.2001 [redacted]	
	A6.9/04: [redacted] (2011): Acute Oral Neurotoxicity Study with 3-Iodopropynylbutyl Carbamate (IPBC) Administered by Gavage in CD® Rats. Volume III of III. [redacted] 31.08.2001 [redacted]	
1.2 Data protection		
1.2.1 Data owner	[redacted]	
1.2.2 Companies with letter of access	[redacted]	
1.2.3 Criteria for data protection	[redacted]	
	2 GUIDELINES AND QUALITY ASSURANCE	
2.1 Guideline study	A6.9/02 to A6.9/04, Yes: US EPA OPPTS Guidelines 870.6200 which is comparable to OECD 424	[redacted]
2.2 GLP	[redacted]	
2.3 Deviations	No neuropathologic evaluation was performed; no positive control data were included to provide evidence for the reliability and sensitivity for the observational methods employed	
	3 MATERIALS AND METHODS	
3.1 Test material	[redacted]	
3.1.1 Lot/Batch number	[redacted]	
3.1.2 Specification	As given in section 2	
3.1.3 Purity	[redacted]	
3.1.4 Description	[redacted]	

CA: DK

Section A6.9/02/03/04 Neurotoxicity
Annex Point IIIA, VI.1 Acute, Gavage, Rats

3.1.5 Stability

[Redacted]

[Redacted]

[Redacted]

[Redacted]

3.2 Reference Substance (positive control)

[Redacted]

3.3 Test Animals

3.3.1 Species CD[®] rats

3.3.2 Strain CrI:CD[®] (SD) IGS BR

3.3.3 Source [Redacted]

3.3.4 Sex male and female

3.3.5 Rearing conditions [Redacted]

3.3.6 Age/weight at study initiation [Redacted]

3.3.7 Number of animals per group [Redacted]

3.3.8 Control animals [Redacted]

3.4 Administration

3.4.1 Exposure Single oral administration

3.4.2 Dose Levels [Redacted]

3.4.3 Vehicle [Redacted]

3.4.4 Concentration in vehicle [Redacted]

3.4.5 Total volume applied [Redacted]

3.4.6 Postexposure period [Redacted]

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Section A6.9/02/03/04 Neurotoxicity
Annex Point IIIA, VI.1 Acute, Gavage, Rats

3.6 Further remarks

[REDACTED]

4 RESULTS AND DISCUSSION

4.1 Body Weight

[REDACTED]

CA: DK

Section A6.9/02/03/04 Neurotoxicity
Annex Point IIIA, VI.1 Acute, Gavage, Rats

4.2 Clinical signs of toxicity

[Redacted text block]

[Redacted text block]

[Redacted text block]

[Redacted text block]

CA: DK

Section A6.9/02/03/04 Neurotoxicity
Annex Point IIIA, VI.1 Acute, Gavage, Rats

4.2 Clinical signs of toxicity (continued)

[Redacted text block]

4.3 Clinical Chemistry

[Redacted text block]

4.4 Pathology

[Redacted text block]

4.5 Histopathology

[Redacted text block]

4.6 Other

[Redacted text block]

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Section A6.9/02/03/04 Neurotoxicity
Annex Point IIIA, VI.1 Acute, Gavage, Rats

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

[REDACTED]

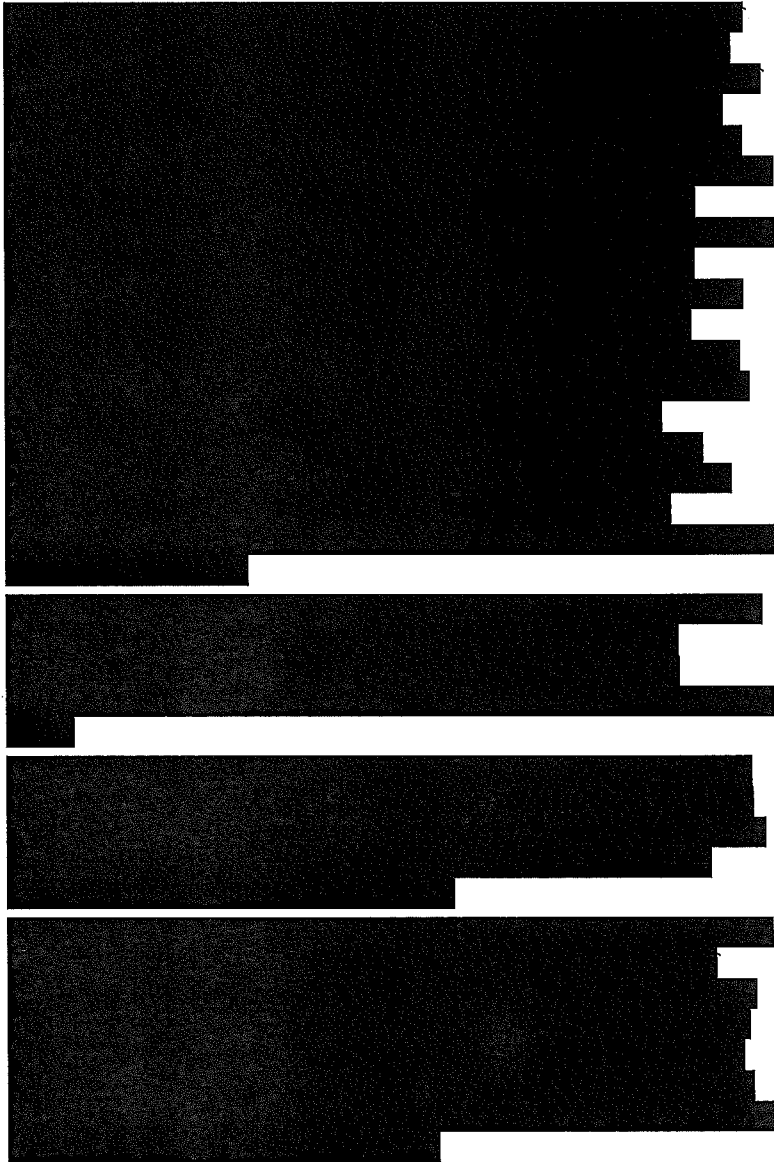
[REDACTED]

The study was performed according to OPPTS 870.6200 (Neurotoxicity Screening Battery). No neuropathological examination of nervous tissue was performed in this acute rat neurotoxicity study since no significant neuropathologic changes were noted in the nervous system examined in a companion 90-day study in rats with this material [REDACTED]

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Section A6.9/02/03/04 Neurotoxicity
Annex Point IIIA, VI.1 Acute, Gavage, Rats






5.2 Results and discussion

A large, solid black rectangular redaction covers the majority of the page content, obscuring all text and graphics that would otherwise be present in the 'Results and discussion' section.

CA: DK

Section A6.9/02/03/04 Neurotoxicity
Annex Point IIIA, VI.1 Acute, Gavage, Rats

5.3	Conclusion		
5.3.1	NOEL	100 mg/kg bw for systemic toxicity based on statistically significantly reduced body weight reductions in males of sets 2 + 3 at 300 and 1,000 mg/kg bw and statistically significant effects on motor activity in males at 300 mg/kg bw.	
5.3.2	NOAEL	1,000 mg/kg bw (neurotoxicity)	
5.3.3	Reliability	█	*
5.3.4	Deficiencies	None	*

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	
Materials and Methods	
Results and discussion	
Conclusion	
Reliability	█
Acceptability	

CA: DK

Section A6.9/05
Annex Point IIIA, VI.1Neurotoxicity
Feeding, Rat, Rangefinder for subchronic study

		Official use only
	1 REFERENCE	
1.1	Reference	
	A6.9/05: [REDACTED] (2002): 2-Week Dietary Range-Finding and Palatability Study with 3-Iodopropynylbutyl Carbamate (IPBC) in CD® Rats. [REDACTED] [REDACTED] 25.04.2002 [REDACTED]	[REDACTED] [REDACTED]
1.2	Data protection	[REDACTED]
1.2.1	Data owner	[REDACTED]
1.2.2	Companies with letter of access	[REDACTED]
1.2.3	Criteria for data protection	[REDACTED]
	2 GUIDELINES AND QUALITY ASSURANCE	
2.1	Guideline study	n.a., range finding study
2.2	GLP	[REDACTED] [REDACTED]
2.3	Deviations	n.a., range-finding study
	3 MATERIALS AND METHODS	
3.1	Test material	[REDACTED]
3.1.1	Lot/Batch number	[REDACTED] *
3.1.2	Specification	As given in section 2
3.1.3	Purity	[REDACTED] *
3.1.4	Description	[REDACTED]
3.1.5	Stability	[REDACTED]
3.2	Reference Substance (positive control)	[REDACTED]
3.3	Test Animals	
3.3.1	Species	CD® rats
3.3.2	Strain	CrI:CD® (SD) IGS BR
3.3.3	Source	[REDACTED]
3.3.4	Sex	Male and female
3.3.5	Rearing conditions	[REDACTED]

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Section A6.9/05

Neurotoxicity

Annex Point IIIA, VI.1

Feeding, Rat, Rangefinder for subchronic study

3.3.6	Age/weight at study initiation	[Redacted]	[Redacted]
3.3.7	Number of animals per group	[Redacted]	
3.3.8	Control animals	[Redacted]	
3.4	Administration	Oral with the diet	
3.4.1	Exposure	14 consecutive days	
3.4.2	Dose Levels	[Redacted]	*
3.4.3	Vehicle	[Redacted]	
3.4.4	Concentration in vehicle	[Redacted]	
3.4.5	Total volume applied	[Redacted]	
3.4.6	Postexposure period	[Redacted]	
3.4.7	Anticholinergic substances used	[Redacted]	
3.4.8	Controls	[Redacted]	
3.5	Examinations		
3.5.1	Body Weight	[Redacted]	
3.5.2	Signs of Toxicity	[Redacted]	
3.5.3	Observation schedule	[Redacted]	

CA: DK

Section A6.9/05

Neurotoxicity

Annex Point IIIA, VI.1

Feeding, Rat, Rangefinder for subchronic study

3.5.4 Clinical Chemistry

[REDACTED]

3.5.5 Pathology

[REDACTED]

[REDACTED]

[REDACTED]

3.5.6 Histopathology

[REDACTED]

3.6 Further remarks

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

CA: DK

Section A6.9/05
Annex Point IIIA, VI.1

Neurotoxicity
Feeding, Rat, Rangefinder for subchronic study

4 RESULTS AND DISCUSSION

4.1 Body Weight

[REDACTED]

4.2 Clinical signs of toxicity

[REDACTED]

4.3 Clinical Chemistry

[REDACTED]

CA: DK

Section A6.9/05

Neurotoxicity

Annex Point IIIA, VI.1

Feeding, Rat, Rangefinder for subchronic study

4.4 Pathology

[Redacted]

4.5 Histopathology

[Redacted]

4.6 Other

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

CA: DK

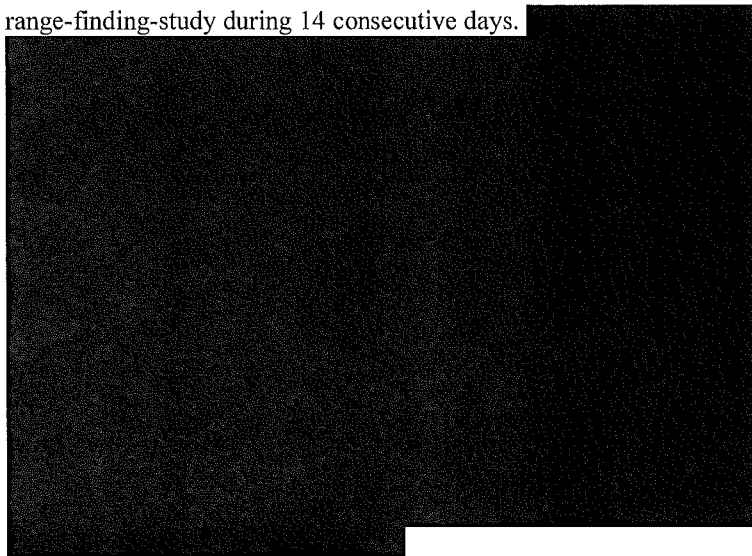
Section A6.9/05
Annex Point IIIA, VI.1

Neurotoxicity
Feeding, Rat, Rangefinder for subchronic study

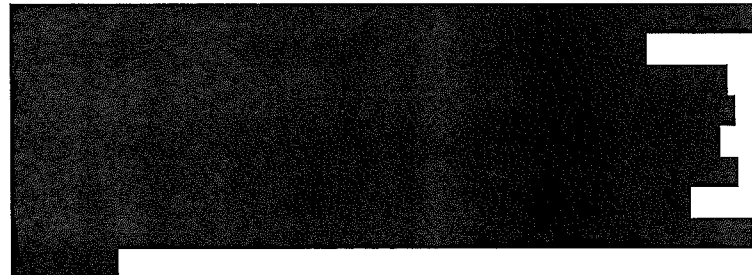
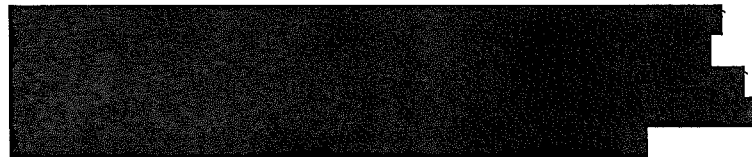
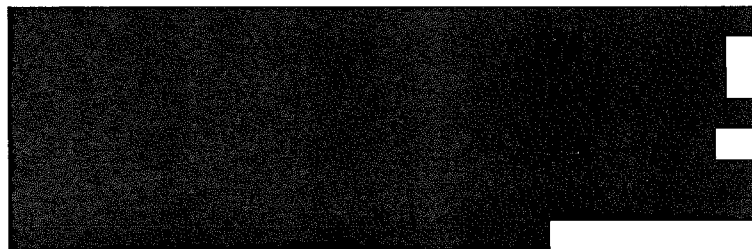
5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

IPBC was administered to male and female CD[®] rats with the diet in a range-finding-study during 14 consecutive days.



5.2 Results and discussion



*

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Section A6.9/05
Annex Point IIIA, VI.1

Neurotoxicity
Feeding, Rat, Rangefinder for subchronic study

5.3 Conclusion

[Redacted]

5.3.1 LOAEL n.a., dose-range-finding study

5.3.2 NOAEL n.a., dose-range-finding study

5.3.3 Reliability

█

5.3.4 Deficiencies n.a., dose-range-finding study

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	[Redacted]
Materials and Methods	[Redacted]
Results and discussion	[Redacted]
Conclusion	[Redacted]
Reliability	█
Acceptability	[Redacted]
Remarks	[Redacted]

CA: DK

Section A6.9/05

Neurotoxicity

Annex Point IIIA, VI.1

Feeding, Rat, Rangefinder for subchronic study

[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]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

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Section
A6.9/06/07/08/09
Annex Point IIIA, VI.1

Neurotoxicity
Subchronic, Feeding, Rat

		Official use only
	1 REFERENCE	
1.1	Reference	
	A6.9/06: [REDACTED] (2001): 13-Week Dietary Neurotoxicity Study with 3-Iodopropynylbutyl Carbamate (IPBC) in CD® Rats. [REDACTED] [REDACTED] 20.09.2001 [REDACTED]	[REDACTED]
	A6.9/07: [REDACTED] (2001): 13-Week Dietary Neurotoxicity Study with 3-Iodopropynylbutyl Carbamate (IPBC) in CD® Rats. [REDACTED] [REDACTED] 20.09.2001 [REDACTED]	
	A6.9/08: [REDACTED]. (2001): 13-Week Dietary Neurotoxicity Study with 3-Iodopropynylbutyl Carbamate (IPBC) in CD® Rats. [REDACTED] [REDACTED] 20.09.2001; [REDACTED]	
	A6.9/09: [REDACTED] 13-Week Dietary Neurotoxicity Study with 3-Iodopropynylbutyl Carbamate (IPBC) in CD® Rats. [REDACTED] [REDACTED] 20.09.2001; [REDACTED]	
1.2	Data protection	
1.2.1	Data owner	[REDACTED]
1.2.2	Companies with letter of access	[REDACTED]
1.2.3	Criteria for data protection	[REDACTED]
	2 GUIDELINES AND QUALITY ASSURANCE	
2.1	Guideline study	
	A6.9/06 to A6.9/09, Yes: US EPA OPPTS Guidelines 870.6200 which is comparable to OECD 424	[REDACTED]
2.2	GLP	[REDACTED]
2.3	Deviations	
	Initial body weight of male and female rats at the time of randomisation exceeded the range of 20% of the mean body weight of each sex; no positive control data were included to provide evidence for the reliability and sensitivity for the observational methods employed. None of these deviations affected the quality or integrity of the study results.	*

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Section
A6.9/06/07/08/09
Annex Point IIIA, VI.1

Neurotoxicity
Subchronic, Feeding, Rat

		3 MATERIALS AND METHODS	
3.1	Test material	[REDACTED]	
3.1.1	Lot/Batch number	[REDACTED]	*
3.1.2	Specification	As given in section 2	
3.1.2.1	Description	[REDACTED]	
3.1.2.2	Purity	[REDACTED]	*
3.1.2.3	Stability	[REDACTED]	
		[REDACTED]	
		[REDACTED]	
3.2	Reference Substance (positive control)	[REDACTED]	
3.3	Test Animals		
3.3.1	Species	CD® rats	
3.3.2	Strain	CrI:CD® (SD) IGS BR	
3.3.3	Source	[REDACTED]	
3.3.4	Sex	Male and female	
3.3.5	Rearing conditions	[REDACTED]	
3.3.6	Age/weight at study initiation	[REDACTED]	
3.3.7	Number of animals per group	[REDACTED]	
		[REDACTED]	
		[REDACTED]	
3.3.8	Control animals	[REDACTED]	

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Section
A6.9/06/07/08/09
Annex Point IIIA, VI.1

Neurotoxicity
Subchronic, Feeding, Rat

3.4 Administration	Oral (<i>ad lib</i> with the diet)
3.4.1 Exposure	13 consecutive weeks
3.4.2 Dose Levels	[REDACTED]
3.4.3 Vehicle	[REDACTED]
3.4.4 Concentration in vehicle	[REDACTED]
3.4.5 Total volume applied	[REDACTED]
3.4.6 Postexposure period	[REDACTED]
3.4.7 Anticholinergic substances used	[REDACTED]
3.4.8 Controls	[REDACTED]
3.5 Examinations	
3.5.1 Body Weight	[REDACTED]
3.5.2 Signs of Toxicity	[REDACTED]
3.5.3 Observation schedule	[REDACTED]

CA: DK

Section
A6.9/06/07/08/09
Annex Point IIIA, VI.1

Neurotoxicity
Subchronic, Feeding, Rat

3.5.4 Clinical Chemistry

[Redacted]

3.5.5 Pathology

[Redacted]

3.5.6 Histopathology

[Redacted]

CA: DK

Section **Neurotoxicity**
A6.9/06/07/08/09 **Subchronic, Feeding, Rat**
Annex Point IIIA, VI.1

3.6 Further remarks

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

CA: DK

Section
A6.9/06/07/08/09
Annex Point IIIA, VI.1

Neurotoxicity
Subchronic, Feeding, Rat

4 RESULTS AND DISCUSSION

4.1 Body Weight

[REDACTED]

CA: DK

Section
A6.9/06/07/08/09
Annex Point IIIA, VI.1

Neurotoxicity
Subchronic, Feeding, Rat

4.2 Clinical signs of toxicity

[REDACTED]

CA: DK

Section
A6.9/06/07/08/09

Neurotoxicity
Subchronic, Feeding, Rat

Annex Point IIIA, VI.1

4.3 Clinical Chemistry

[REDACTED]

[REDACTED]

[REDACTED]

4.4 Pathology

[REDACTED]

CA: DK

Section **Neurotoxicity**
A6.9/06/07/08/09 **Subchronic, Feeding, Rat**

Annex Point IIIA, VI.1

4.5 Histopathology

[Redacted]

[Redacted]

4.6 Other

[Redacted]

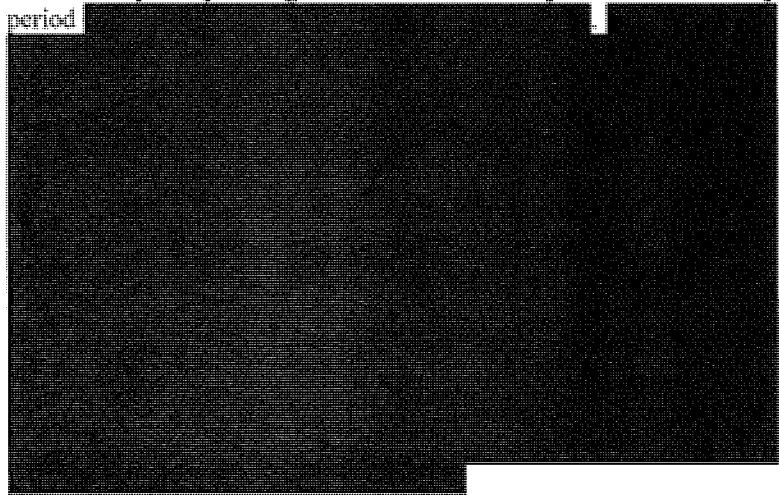
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Section
A6.9/06/07/08/09
Annex Point IIIA, VI.1

Neurotoxicity
Subchronic, Feeding, Rat

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods IPBC was administered to male and female CD[®] rats with the diet in a neurotoxicity study during 13 weeks followed by a 4-week recovery period



*

CA: DK

Section
A6.9/06/07/08/09

Neurotoxicity
Subchronic, Feeding, Rat

Annex Point IIIA, VI.1

5.2 Results and discussion

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[Redacted text block]

[Redacted text block]

5.3 Conclusion

[Redacted text block]

5.3.1 NOEL

NOEL for systemic toxicity: 10 mg/kg bw/day based on statistically significant reductions in absolute body weight and food consumption in males and females at 50 and 120 mg/kg bw/day as well as statistically significant reductions in plasma ChE activity exceeding 20% in females at the 50 and 120 mg/kg bw/day dosage levels, respectively.

*

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Section**A6.9/06/07/08/09****Annex Point IIIA, VI.1****Neurotoxicity****Subchronic, Feeding, Rat**

5.3.2 NOAEL	NOAEL for systemic toxicity: 50 mg/kg bw/day based on statistically significant reductions in absolute body weight (males) and body weight gain (males and females) at 120 mg/kg bw/day. NOAEL for neurotoxicity: 120 mg/kg bw/day based on the absence of treatment-related neurohistologic findings.	*
5.3.3 Reliability	■	*
5.3.4 Deficiencies	None	*

CA: DK

[Redacted header text]

[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]

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Section A6.12.1/01/02 Medical surveillance on manufacturing plant personal
Annex Point IIA, VI.6.9.1

		1 REFERENCE	Official use only
1.1 Reference	A6.12.1/01	[REDACTED] (2003): Arch Letter to SCC – Health Data (Cholinesterase levels – Rochester); [REDACTED]	[REDACTED]
	A6.12.1/02	Anonymous (2001): Medical Surveillance Program – Carbamate- IPBC (3-iodo-2-propynylbutyl carbamate); [REDACTED]	
1.2 Data protection	[REDACTED]		
1.2.1 Data owner	[REDACTED]		
1.2.2 Companies with letter of access	[REDACTED]		
1.2.3 Criteria for data protection	[REDACTED]		
		2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
		3 MATERIALS AND METHODS	
3.1 Substance	Technical IPBC		
3.2 Persons tested			
3.2.1 Sex	not indicated		
3.2.2 Age/weight	[REDACTED]		
3.2.3 Known Diseases	[REDACTED]		
3.2.4 Number of persons	[REDACTED]		
3.2.5 Other information	[REDACTED]		
3.3 Exposure	not indicated, most likely dermal and inhalation		
3.3.1 Reason of exposure	[REDACTED]		
3.3.2 Frequency of exposure	[REDACTED]		
3.3.3 Overall time period of exposure	[REDACTED]		
3.3.4 Duration of single exposure	[REDACTED]		
3.3.5 Exposure concentration/dose	[REDACTED]		

CA: DK

Section A6.12.1/01/02 Medical surveillance on manufacturing plant personal
Annex Point IIA, VI.6.9.1

- 3.4 Examinations [REDACTED] *
- 3.5 Treatment [REDACTED]
- 3.6 Remarks [REDACTED]

4 RESULTS

- 4.1 Results of examinations [REDACTED]. There weren't any adverse health effects related to IPBC in workers who work with this material.
- 4.2 Effectivity of medical treatment [REDACTED]
- 4.3 Outcome [REDACTED]
- 4.4 Other [REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

- 5.1 Materials and methods [REDACTED] RBC and plasma cholinesterase activity were determined in regular intervals.
- 5.2 Results and discussion [REDACTED]
- 5.3 Conclusion Occupational contact with IPBC did not result in adverse health effects or unacceptable reductions of cholinesterase activity.

CA: DK

Section A6.12.1/01/02 Medical surveillance on manufacturing plant personal
Annex Point IIA, VI.6.9.1

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Remarks	[REDACTED]

CA: DK

Section A6.12.2 Annex Point IIA, VI.6.9.2	Direct observations, e.g. clinical cases, poisoning incidents		
JUSTIFICATION FOR NON-SUBMISSION OF DATA			Official use only
Other existing data []	Technically not feasible []	Scientifically unjustified []	
Limited exposure []	Other justification [X]		
Detailed justification:	[REDACTED]		
Evaluation by Competent Authorities			
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted			
EVALUATION BY RAPPORTEUR MEMBER STATE			
Date	[REDACTED]		
Evaluation of applicant's justification	[REDACTED]		
Conclusion	[REDACTED]		
Remarks			

CA: DK

Section A6.12.3/01 Health records

Annex Point IIA, VI.6.9.3

3.4 Examinations

[REDACTED]

3.5 Treatment

not applicable

3.6 Remarks

none

4 RESULTS

4.1 Results of examinations

[REDACTED]

4.2 Effectivity of medical treatment

[REDACTED]

4.3 Outcome

[REDACTED]

4.4 Other

[REDACTED]

CA: DK

Section A6.12.3/01 Health records

Annex Point IIA, VI.6.9.3

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

A total of 18 workers applied a IPBC containing paint (900 ppm IPBC) during a normal working day for professional painters.

[Redacted text block]

[Redacted text block]

*

5.2 Results and discussion

[Redacted text block]

[Redacted text block]

[Redacted text block]





5.3 Conclusion

Reports on health complaints in workers applying a IPBC containing paint are not indicative for a adverse health effect. Findings may be attributable to organic solvents.

CA: DK

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Remarks	[REDACTED]

CA: DK

Section A6.12.4		Epidemiological studies on the general population	
Annex Point IIA, VI.6.9.4			
JUSTIFICATION FOR NON-SUBMISSION OF DATA			Official use only
Other existing data []	Technically not feasible []	Scientifically unjustified []	
Limited exposure []	Other justification [X]		
Detailed justification:			
Evaluation by Competent Authorities			
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted			
EVALUATION BY RAPPORTEUR MEMBER STATE			
Date			
Evaluation of applicant's justification			
Conclusion			
Remarks			

CA: DK

Section A6.12.5/01 **Diagnosis of poisoning including specific signs of poisoning and clinical tests**
Annex Point IIA, VI.6.9.5

		1 REFERENCE	Official use only
1.1	Reference	[REDACTED] (2003): Material Safety Data Sheet According to 91/155 EC; [REDACTED]	[REDACTED]
1.2	Data protection	[REDACTED]	
1.2.1	Data owner	[REDACTED]	
1.2.2	Companies with letters of access	[REDACTED]	
1.2.3	Criteria for data protection	[REDACTED]	
		2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
		3 MATERIALS AND METHODS (NOT APPLICABLE)	
3.1	Substance	Technical active substance IPBC [REDACTED]	
		4 RESULTS	
4.1	Clinical Signs of poisoning	<p>Contact with the eyes would be expected to cause moderate to severe irritation consisting of reversible redness, swelling and mucous membrane discharge to the conjunctiva, corneal damage with visual impairment may occur if this product is not washed out immediately.</p> <p>Acute and chronic exposure would be expected to produce moderate to severe reversible irritation characterised by well defined but reversible swelling and redness. No other significant effect to health would be expected.</p> <p>Because of the physical form of this substance, inhalation is not likely. Moderate irritation of the nose, throat, mucous membranes, upper respiratory tract and lungs may occur. Exposure to highly exaggerated concentrations via inhalation of this product may result in inhibition of acetylcholinesterase. Symptoms may include blurred vision, nausea, vomiting, abdominal cramps, salivation, profuse sweating, laboured breathing, tremors, muscle twitching, staggered gait and headache. Penetration into the Central Nervous System by carbamates is generally insignificant and therefore few Central Nervous System symptoms would be expected to occur. There is a rapid disappearance of symptoms after the cessation of the exposure.</p> <p>Acute exposure may result in gastrointestinal irritation with any or all of the following symptoms, nausea, vomiting, lethargy or diarrhoea. Other symptoms same as inhalation.</p>	
4.2	Clinical Tests	Determination of plasma and cholinesterase activity.	[REDACTED]

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	[REDACTED]
Materials and Methods	[REDACTED]

CA: DK

Section A6.12.5/01 Diagnosis of poisoning including specific signs of
Annex Point IIA, VI.6.9.5 poisoning and clinical tests

Results and discussion

[REDACTED]

Conclusion

[REDACTED]

Remarks

CA: DK

Section A6.12.7
Annex Point IIA, VI.6.9.7**Specific treatment in case of an accident or poisoning:
first aid measures, antidotes and medical treatment**

		1 REFERENCE	Official use only
1.1	Reference	A6.12.5/01 [REDACTED] (2003): Material Safety Data Sheet According to 91/155 EC; [REDACTED] A6.12.1/02 [REDACTED] (2001): Medical Surveillance Program – Carbamate- IPBC (3-iodo-2-propynylbutyl carbamate), [REDACTED]	[REDACTED]
1.2	Data protection	[REDACTED]	
1.2.1	Data owner	[REDACTED]	
1.2.2	Companies with letter of access	[REDACTED]	
1.2.3	Criteria for data protection	[REDACTED]	
		2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
		3 MATERIALS AND METHODS (NOT APPLICABLE)	
3.1	Substance	Technical active substance IPBC [REDACTED]	
		4 RESULTS	
4.1	First aid measures	Eyes: Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention immediately. Impairment of vision is possible. Skin: Immediately wash with water and soap and rinse thoroughly. If irritation develops, seek medical attention. Remove contaminated clothing immediately and launder before re-use. Acute exposure may cause transient redness and irritation. Ingestion: Immediately drink large amounts of water. Seek medical advice. Do not give anything by mouth if the person is unconscious or is having convulsions. If swallowed, gastro-enteritis may occur with nausea, vomiting, lethargy and diarrhoea. Inhalation: Because of the physical form of this substance, inhalation is not likely. Symptoms may include tremors, ataxia and convulsions. Seek immediate medical advice. Acute exposure may cause mild and transient irritation of the respiratory tract.	
4.2	Clinical Tests	Determination of plasma and cholinesterase activity.	
4.3	Antidotes	Atropine, symptomatic treatment	

CA: DK

Section A6.12.7

Annex Point IIA, VI.6.9.7

**Specific treatment in case of an accident or poisoning:
first aid measures, antidotes and medical treatment**

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	██████████
Materials and Methods	██████████
Results and discussion	████████████████████
Conclusion	██████████
Remarks	

CA: DK

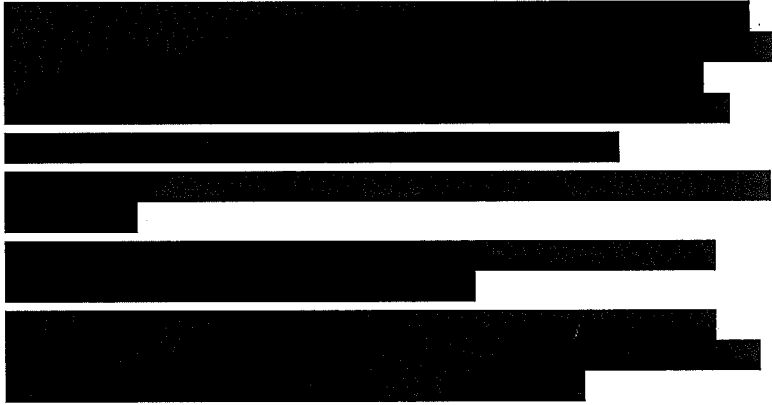



Section A6.12.8

Annex Point IIA, VI.6.9.8

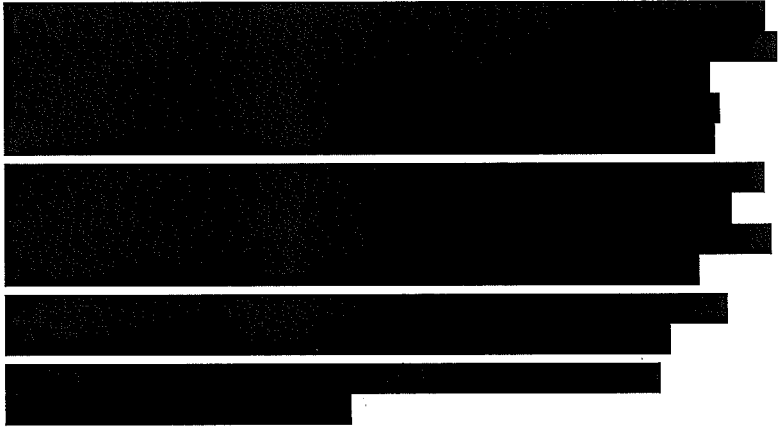



Prognosis following poisoning (expected effects and the duration of these effects must be described)

Please refer to Document IIIA, Section A6.12.5/01.

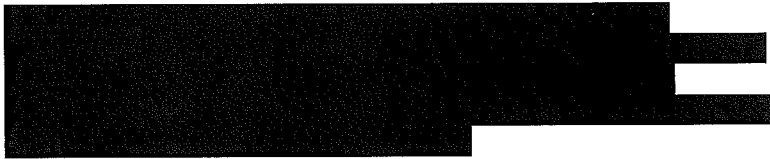



CA: DK

Section A6.13		Toxic effects on livestock and pets	
Annex Point IIIA, VI.2			
JUSTIFICATION FOR NON-SUBMISSION OF DATA			Official use only
Other existing data []	Technically not feasible []	Scientifically unjustified []	
Limited exposure [X]	Other justification []		
Detailed justification:			
Evaluation by Competent Authorities			
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted			
EVALUATION BY RAPPORTEUR MEMBER STATE			
Date			
Evaluation of applicant's justification			
Conclusion			
Remarks			

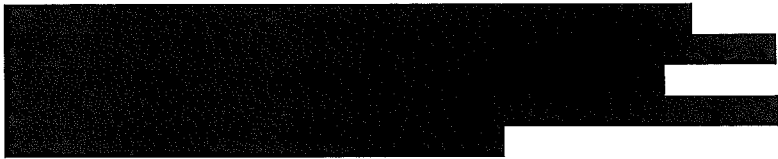



CA: DK

Section A6.14 Annex Point IIIA, VI.3	Other tests related to the exposure of humans	
	JUSTIFICATION FOR NON-SUBMISSION OF DATA	Official use only
Other existing data <input type="checkbox"/>	Technically not feasible <input type="checkbox"/>	Scientifically unjustified <input checked="" type="checkbox"/>
Limited exposure <input type="checkbox"/>	Other justification <input type="checkbox"/>	
Detailed justification:		
Evaluation by Competent Authorities		
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted		
EVALUATION BY RAPPORTEUR MEMBER STATE		
Date		
Evaluation of applicant's justification		
Conclusion		
Remarks		

CA: DK

Section A6.15		Food and feeding stuffs	
Annex Point IIIA, VI.4			
JUSTIFICATION FOR NON-SUBMISSION OF DATA			Official use only
Other existing data []	Technically not feasible []	Scientifically unjustified []	
Limited exposure []	Other justification [X]		
Detailed justification:			
Evaluation by Competent Authorities			
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted			
EVALUATION BY RAPPORTEUR MEMBER STATE			
Date			
Evaluation of applicant's justification			
Conclusion			
Remarks			

CA: DK

Section A6.16 Annex Point IIIA, VI.5	Any other tests related to the exposure of the active substance of humans, in its proposed biocidal products	
JUSTIFICATION FOR NON-SUBMISSION OF DATA		Official use only
Other existing data []	Technically not feasible []	Scientifically unjustified []
Limited exposure []	Other justification [X]	
Detailed justification:		
Evaluation by Competent Authorities		
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted		
EVALUATION BY RAPPORTEUR MEMBER STATE		
Date		
Evaluation of applicant's justification		
Conclusion		
Remarks		

CA: DK

<p>Section A6.17 Annex Point IIIA, VI.6</p>	<p>If the active substance is to be used in products for action against plants then tests to assess toxic effects of metabolites from treated plants, if any, where different from those identified in animals shall be required</p>	
<p>JUSTIFICATION FOR NON-SUBMISSION OF DATA</p>		<p>Official use only</p>
<p>Other existing data []</p>	<p>Technically not feasible []</p>	<p>Scientifically unjustified [X]</p>
<p>Limited exposure []</p>	<p>Other justification []</p>	
<p>Detailed justification:</p>	<p>[REDACTED]</p>	
<p>Evaluation by Competent Authorities</p>		
<p>Use separate "evaluation boxes" to provide transparency as to the comments and views submitted</p>		
<p>EVALUATION BY RAPPORTEUR MEMBER STATE</p>		
<p>Date</p>	<p>[REDACTED]</p>	
<p>Evaluation of applicant's justification</p>	<p>[REDACTED]</p>	
<p>Conclusion</p>	<p>[REDACTED]</p>	
<p>Remarks</p>	<p>[REDACTED]</p>	

CA: DK

Section A6.18 Annex Point IIA, VI.6.10	Summary of toxicology
---	------------------------------

The toxicological properties of IPBC are summarised in Document IIA, Chapter 3.

CA: DK

Abbreviations

ROAT	Repeated Open Application Test
MWF	Metal Working Fluid
PBC	2-Propargyl Butyl Carbamate
PEG 400	Polyethyleneglycol 400
TSH	Thyroid Stimulating Hormone

CA: DK

Section A6.12.6/01 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

		1 REFERENCE	Official use only
1.1	Reference	Bryld, L.E.; Agner, T.; Rastogi, S.C. Menné, T. (1997): Iodopropynyl butylcarbamate: a new contact allergen; Contact Dermatitis, Volume 36, page 156 – 158; [REDACTED]	
1.2	Data protection	[REDACTED]	
		2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
		3 MATERIALS AND METHODS	
3.1	Substance	IPBC formulated in Glycasil-S™ was used for patch testing. [REDACTED]	
3.2	Persons tested		
3.2.1	Sex	Patients from allergenicity hospitals (106 men, 205 women) were patch tested.	
3.2.2	Age/weight	[REDACTED]	
3.2.3	Known Diseases	[REDACTED]	
3.2.4	Number of persons	[REDACTED]	
3.2.5	Other information	[REDACTED]	
3.3	Exposure	Dermal	
3.3.1	Reason of exposure	patch test	
3.3.2	Frequency of exposure	[REDACTED]	
3.3.3	Overall time period of exposure	[REDACTED]	
3.3.4	Duration of single exposure	[REDACTED]	
3.3.5	Exposure concentration/dose	[REDACTED]	
3.3.6	Other information	[REDACTED]	
3.4	Examinations	[REDACTED]	
3.5	Treatment	[REDACTED]	
3.6	Remarks		

CA: DK

Section A6.12.6/01 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

4 RESULTS

**4.1 Results of
 examinations**

[REDACTED]

**4.2 Effectivity of
 medical treatment**

[REDACTED]

4.3 Outcome

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

**5.1 Materials and
 methods**

[REDACTED]

CA: DK

Section A6.12.6/01 Sensitisation/Allergenicity Observations**Annex Point IIA, VI.6.9.6****5.2 Results and
discussion**

The authors reported about 3 positive patch tests and 3 irritant patch tests. Thus, the concentration used (0.1%) might have been far the tolerable concentration. Sodium bicarbonate did not produce positive patch tests. A cross reactivity to thiuram could be excluded.

All 3 positive tested persons had dermatitis on hand/and or trunk which lasted for about 6 months before being patch tested. A previous contact to IPBC before the positive patch tests for 2 of the 3 persons could not be demonstrated. The 3rd persons had occupationally contact with IPBC (about 30% concentration) and was further tested in a double-blind study using IPBC diluted in Essex CreamTM or in alcohol (up to 0.1% IPBC). There was no reaction until day 4 (itching and redness). After 3 days this developed to a eczematous reaction. The persons had no symptoms when IPBC contact was avoided.

Evaluation by Competent Authorities

Use separate "evaluation boxes" to provide transparency as to the comments and views submitted

EVALUATION BY RAPPORTEUR MEMBER STATE**Date****Materials and Methods****Results and discussion****Conclusion****Remarks**

CA: DK

Section A6.12.6/02 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

		1 REFERENCE	Official use only
1.1	Reference	Pazzaglia, M., Tosti, A. (1999): Allergic contact dermatitis from 3-Iodo-2-propynyl butylcarbamate in a cosmetic cream; Contact Dermatitis, Volume 41, page 290-304; [REDACTED]	*
1.2	Data protection	[REDACTED]	
		2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
		3 MATERIALS AND METHODS	
3.1	Substance	IPBC formulated in Glycacil-L was used for patch testing. [REDACTED]	
3.2	Persons tested		
3.2.1	Sex	140 men, 172 women	
3.2.2	Age/weight	[REDACTED]	
3.2.3	Known Diseases	[REDACTED]	
3.2.4	Number of persons	[REDACTED]	
3.2.5	Other information	[REDACTED]	
3.3	Exposure	Dermal	
5.2.1	Reason of exposure	patch test	
3.3.1	Frequency of exposure	[REDACTED]	
3.3.2	Overall time period of exposure	[REDACTED]	
3.3.3	Duration of single exposure	[REDACTED]	
3.3.4	Exposure concentration/dose	[REDACTED]	
3.3.5	Other information	[REDACTED]	
3.4	Examinations	[REDACTED]	
3.5	Treatment	[REDACTED]	

CA: DK

Section A6.12.6/02 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

4 RESULTS

4.1 Results of examinations

[REDACTED]

4.2 Effectivity of medical treatment

[REDACTED]

4.3 Outcome

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

A total of 312 persons was patch tested to investigate sensitisation/allergenicity potential of IPBC

[REDACTED]

5.2 Results and discussion

The authors reported about 3 persons showing reactions to the patch tests. The reactions of 2 persons were considered irritant. Only 1 person reactions were interpreted as allergic.

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Remarks	[REDACTED]
	[REDACTED]
	[REDACTED]

CA: DK

Section A6.12.6/03 Sensitisation/Allergenicity Observations
 Annex Point IIA, VI.6.9.6

		1 REFERENCE	Official use only
1.1	Reference	Majoie, I.M.L; van Ginkel, C.J.W. (2000): The biocide iodopropynyl butylcarbamate (IPBC) as an allergen in cutting oils; Contact Dermatitis, Volume 43, page 238-240; [REDACTED] (published)	
1.2	Data protection	No, publication	
		2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
		3 MATERIALS AND METHODS	
3.1	Substance	Metal working fluid (MWF) series were provided by Trolab Hermal and Chemotechnique [REDACTED]	
3.2	Persons tested		
3.2.1	Sex	[REDACTED]	
3.2.2	Age/weight	[REDACTED]	
3.2.3	Known Diseases	[REDACTED]	
3.2.4	Number of persons	23 metalworkers	
3.2.5	Other information	[REDACTED]	
3.3	Exposure	Dermal	
5.2.2	Reason of exposure	patch test, ROAT	
3.3.1	Frequency of exposure	[REDACTED]	
3.3.2	Overall time period of exposure	[REDACTED]	
3.3.3	Duration of single exposure	[REDACTED]	
3.3.4	Exposure concentration/dose	[REDACTED]	
3.3.5	Other information	[REDACTED]	
3.4	Examinations	[REDACTED]	
3.5	Treatment	[REDACTED]	

CA: DK

Section A6.12.6/03

Sensitisation/Allergenicity Observations

Annex Point IIA, VI.6.9.6

4 RESULTS

4.1 Results of examinations

Five of 23 metalworkers (with a history of dermatitis) patch-tested were positive for IPBC.

[REDACTED]

4.2 Effectivity of medical treatment

[REDACTED]

4.3 Outcome

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

A total of 23 metalworkers were patch tested to investigate sensitisation/allergenicity potential of IPBC

[REDACTED]

5.2 Results and discussion

The authors reported about 5 persons positively patch tested out of 23 persons when IPBC at 0.5 to 2.5% was applied.

[REDACTED]

CA: DK

Section A6.12.6/03 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Remarks	

CA: DK

Section A6.12.6/04 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

		1 REFERENCE	Official use only
1.1	Reference	Bryld, L.E.; Agner, T.; Menné, T. (2001): Allergic contact dermatitis from 3-iodo-2-propynyl-butylcarbamate (IPBC) – an update; Contact Dermatitis, Volume 44, page 276 – 278; [REDACTED] (published)	
1.2	Data protection	No, publication	
		2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
		3 MATERIALS AND METHODS	
3.1	Substance	The initially used material for patch test was a preparation of IPBC in sodium bicarbonate (Glycasil-S TM). Subsequently, Biodocarb and Troysan was used. [REDACTED]	
3.2	Persons tested		
3.2.1	Sex	1070 men, 2077 women	
3.2.2	Age/weight	[REDACTED]	
3.2.3	Known Diseases	[REDACTED]	
3.2.4	Number of persons	[REDACTED]	
3.2.5	Other information	[REDACTED]	
3.3	Exposure	Dermal	
5.2.3	Reason of exposure	patch test	
3.3.1	Frequency of exposure	[REDACTED]	
3.3.2	Overall time period of exposure	[REDACTED]	
3.3.3	Duration of single exposure	[REDACTED]	
3.3.4	Exposure concentration/dose	[REDACTED]	
3.3.5	Other information	[REDACTED] [REDACTED]	
3.4	Examinations	[REDACTED]	
3.5	Treatment	[REDACTED]	

Section A6.12.6/04 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

4 RESULTS

- 4.1 Results of examinations

[REDACTED]
- 4.2 Effectivity of medical treatment

[REDACTED]
- 4.3 Outcome

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

- 5.1 Materials and methods

[REDACTED]
- 5.2 Results and discussion

The authors reported about 4 new persons (all women) reacting positive to patch tests. In 2 cases sensitisation from cosmetics was identified, and in 2 cases sensitisation was suspected. [REDACTED]

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Remarks	

CA: DK

Section A6.12.6/05 Sensitisation/Allergenicity Observations

Annex Point IIA, VI.6.9.6

		1 REFERENCE	Official use only
1.1	Reference	Schnuch, A., Geier, J., Brasch, J., Uter, W. (2002): The preservative iodopropynyl butylcarbamate: frequency of allergic reactions and diagnostic considerations; Contact Dermatitis, Volume 46, page 153 – 156; [REDACTED] (published)	
1.2	Data protection	[REDACTED]	
		2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
		3 MATERIALS AND METHODS	
3.1	Substance	IPBC [REDACTED]	
3.2	Persons tested		
3.2.1	Sex	Male and female	
3.2.2	Age/weight	[REDACTED]	
3.2.3	Known Diseases	[REDACTED]	
3.2.4	Number of persons	[REDACTED]	
3.2.5	Other information	[REDACTED]	
3.3	Exposure	Dermal	
5.2.4	Reason of exposure	patch test	
3.3.1	Frequency of exposure	[REDACTED]	
3.3.2	Overall time period of exposure	[REDACTED]	
3.3.3	Duration of single exposure	[REDACTED]	
3.3.4	Exposure concentration/dose	[REDACTED]	
3.3.5	Other information	[REDACTED]	
3.4	Examinations	[REDACTED]	
3.5	Treatment	[REDACTED]	
		4 RESULTS	
4.1	Results of examinations	[REDACTED]	
4.2	Effectivity of medical treatment	[REDACTED]	

CA: DK

Section A6.12.6/05 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

4.3	Outcome	[REDACTED]
		5 APPLICANT'S SUMMARY AND CONCLUSION
5.1	Materials and methods	[REDACTED]
5.2	Results and discussion	Patch testing of 4883 persons with IPBC yielded a proportion of 0.3 % with positive skin reactions and 0.5 % with a doubtful skin reaction on day 3.

Evaluation by Competent Authorities

Use separate "evaluation boxes" to provide transparency as to the comments and views submitted

EVALUATION BY RAPPORTEUR MEMBER STATE

Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Remarks	

Section A6.12.6/06 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

	1 REFERENCE	Official use only
1.1 Reference	Jensen, C. D., Thormann, J., Andersen, K. E. (2003): Airborne allergic contact dermatitis from 3-iodo-2-propynyl-butylcarbamate at a paint factory; Contact Dermatitis, Volume 48, page 155 – 157; [REDACTED] (published)	
1.2 Data protection	[REDACTED]	
	2 GUIDELINES AND QUALITY ASSURANCE (NOT APPLICABLE)	
	3 MATERIALS AND METHODS	
3.1 Substance	IPBC unspecified	
3.2 Persons tested		
3.2.1 Sex	female	
3.2.2 Age/weight	[REDACTED]	
3.2.3 Known Diseases	[REDACTED]	
3.2.4 Number of persons	[REDACTED]	
3.2.5 Other information	[REDACTED]	
3.3 Exposure	Dermal	
5.2.5 Reason of exposure	Occupational, patch test	
3.3.1 Frequency of exposure	[REDACTED]	
3.3.2 Overall time period of exposure	[REDACTED]	
3.3.3 Duration of single exposure	[REDACTED]	
3.3.4 Exposure concentration/dose	[REDACTED]	
3.3.5 Other information	[REDACTED]	
3.4 Examinations	[REDACTED]	
3.5 Treatment	[REDACTED]	

CA: DK

Section A6.12.6/06 Sensitisation/Allergenicity Observations
Annex Point IIA, VI.6.9.6

4 RESULTS

- 4.1 **Results of examinations** The patient showed strong reactions to all 3 concentrations tested.
- 4.2 **Effectivity of medical treatment** [REDACTED]
- 4.3 **Outcome** [REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

- 5.1 **Materials and methods** This publication is a case report of a woman with an occupational exposure to IPBC.
- 5.2 **Results and discussion** The woman was positively patch tested with 0.01, 0.03, and 0.1% IPBC in petrolatum.

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Remarks	

Document III-A.7

DOCUMENTATION SUMMARIES

IPBC

CAS No. 55406-53-6

**from European Union IPBC Task Force
for use in wood preservatives (Product type 8)**

Competent Authority Report: DK

IPBC

Document III-A.7

August 2007

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Section A7.1.1.1/01 Hydrolysis as a function of pH and identification of breakdown products
Annex Point IIA, VII.7.6.2.1

3.3	Test solution	[REDACTED]
3.4	Testing procedure	[REDACTED]
3.4.1	Test system	[REDACTED]
3.4.2	Temperature	[REDACTED]
3.4.3	pH	[REDACTED]
3.4.4	Duration of the test	[REDACTED]
3.4.5	Number of replicates	[REDACTED]
3.4.6	Sampling	[REDACTED]
3.4.7	Analytical methods	[REDACTED]
3.5	Preliminary test	[REDACTED]

4 RESULTS

4.1	Concentration and hydrolysis values	[REDACTED]
4.2	Hydrolysis rate constant (k_h)	[REDACTED]
4.3	Dissipation time	[REDACTED]
4.4	Concentration – time data	[REDACTED]
4.5	Specification of	[REDACTED]

Section A7.1.1.1.1/01 Hydrolysis as a function of pH and identification of breakdown products

Annex Point IIA,
VII.7.6.2.1

the transformation
products

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

The aqueous hydrolysis test was conducted according to test method C.7 for determination of abiotic degradation, EG guideline 92/69.

5.2 Results and discussion

5.2.1 k_H

The test substance IPBC is not degradable at pH 4 and pH 7.

At pH 9 the hydrolysis rate constants k_H are 0.0025 h^{-1} at 50°C , 0.0224 h^{-1} at 65°C and 0.125 h^{-1} at 80°C . The hydrolysis rate constant at 25°C was extrapolated according to the Arrhenius equation and calculated to be $5.36 \times 10^{-5} \text{ h}^{-1}$.

5.2.2 DT_{50}

The test substance IPBC is not degradable at pH 4 and pH 7.

DT_{50} values at pH 9:

5.6 h = 0.2 days (80°C)

31 h = 1.3 days (65°C)

282 h = 11.8 days (50°C)

12942 h = 539 days (25°C)

5.3 Conclusion

IPBC was found to be stable under acidic and neutral conditions. Under alkaline conditions IPBC degraded slowly at ambient temperatures with a DT_{50} of 539 days.

5.3.1 Reliability

5.3.2 Deficiencies

Yes

Formation of degradation products was not investigated. However, the study is acceptable to predict the hydrolysis rate constant and dissipation times of the parent substance IPBC.

[REDACTED]

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

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[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]

Section A7.1.1.1/02 Hydrolysis as a function of pH and identification of breakdown products
Annex Point IIA, VII.7.6.2.1

3.2.1	Initial concentration of reference substance	[REDACTED]
3.3	Test solution	[REDACTED]
3.4	Testing procedure	
3.4.1	Test system	[REDACTED]
3.4.2	Temperature	[REDACTED]
3.4.3	pH	[REDACTED]
3.4.4	Duration of the test	[REDACTED]
3.4.5	Number of replicates	[REDACTED]
3.4.6	Sampling	[REDACTED]
3.4.7	Analytical methods	[REDACTED]
3.5	Preliminary test	[REDACTED]

4 RESULTS

4.1	Concentration and hydrolysis values	[REDACTED]
4.2	Hydrolysis rate constant (k_h)	[REDACTED]
4.3	Dissipation time	[REDACTED]

Section A7.1.1.1/02 Hydrolysis as a function of pH and identification of breakdown products

Annex Point IIA,
VII.7.6.2.1

4.4 Concentration –
time data

4.5 Specification of
the transforma-
tion products

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and
methods

The aqueous hydrolysis test was conducted according to U.S. EPA Pesticide Assessment Guidelines, Subdivision N, § 161-1, Chemistry: Environmental Fate.

5.2 Results and
discussion

5.2.1 k_H

pH 5: 0.0026 d⁻¹

pH 7: 0.00279 d⁻¹

pH 9: 0.00302 d⁻¹

5.2.2 DT₅₀

pH 5: 267 days (25°C)

pH 7: 248 days (25°C)

pH 9: 229 days (25°C)

5.2.3 r^2

Correlation coefficients ranged from 0.657 to 0.796.

5.3 Conclusion

Validity criteria can be considered as fulfilled.

IPBC was found to be hydrolytically stable in sterile aqueous solutions at ambient temperatures.

5.3.1 Reliability

5.3.2 Deficiencies

No

Section A7.1.1.1.1/02 Hydrolysis as a function of pH and identification of breakdown products

Annex Point IIA,
VII.7.6.2.1

Evaluation by Competent Authorities	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	██████████
Materials and Methods	██
Results and discussion	██
Conclusion	██
Reliability	█
Acceptability	██████████
Remarks	
COMMENTS FROM ...	
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]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

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

Section
A7.1.1.1.2/01/02

Phototransformation in water including identity of transformation products

Annex Point II A,
VII.7.6.2.1

		Official use only
		1 REFERENCE
1.1 Reference	A7.1.1.1.2/01: Lee, D. et al. (1991): Photostability of organoiodine wood preservatives I, Progressive degradation and loss in fungal inhibition rate through photoirradiation; Mokuzai Gakkaishi Vol. 37, No. 1, p. 76 – 81; Doc. No. 792-005, (published). A7.1.1.1.2/02: Lee, D. et al. (1991): Photostability of organoiodine wood preservatives II, The photolytic process of preservatives; Mokuzai Gakkaishi Vol. 37, No. 3, p. 261 – 265; Doc. No. 792-004, (published).	
1.2 Data protection	█	
1.2.1 Data owner	█	
1.2.2 Companies with letter of access	█	
1.2.3 Criteria for data protection	█	
		2 GUIDELINES AND QUALITY ASSURANCE
2.1 Guideline study	No, publication	
2.2 GLP	█	
2.3 Deviations	Not applicable	
		3 MATERIAL AND METHODS
3.1 Test material	IPBC	
3.1.1 Lot/Batch number	█	
3.1.2 Specification	Not indicated	
3.1.3 Purity	█	
3.1.4 Description of test substance	█	
3.1.5 Radiolabelling	█	
3.1.6 UV/VIS absorption spectra and absorbance value	█	
3.1.7 Further relevant properties	█	

Section
A7.1.1.1.2/01/02
Phototransformation in water including identity of transformation products

Annex Point IIA,
VII.7.6.2.1

3.2	Reference substance	[REDACTED]
3.3	Test solution	[REDACTED]
	b)	[REDACTED]
3.4	Testing procedure	
3.4.1	Test system	[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
3.4.2	Properties of light source	[REDACTED]
		[REDACTED]
		[REDACTED]
3.4.3	Determination of irradiance	[REDACTED]
3.4.4	Temperature	[REDACTED]
3.4.5	pH	[REDACTED]
3.4.6	Duration of the test	[REDACTED]
3.4.7	Number of replicates	[REDACTED]
3.4.8	Sampling	[REDACTED]
3.4.9	Analytical methods	[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]
		[REDACTED]

Section
A7.1.1.1.2/01/02 **Phototransformation in water including identity of transformation products**

Annex Point IIA,
VII.7.6.2.1

		[Redacted]
3.4.10	Calculations	[Redacted]
3.5	Transformation products	[Redacted]
3.5.1	Method of analysis for transformation products	[Redacted]

4 RESULTS

4.1	Screening test	[Redacted]
4.2	Actinometer data	[Redacted]
4.3	Controls	[Redacted]
4.4	Photolysis data	
4.4.1	Concentration values	[Redacted]
4.4.2	Mass balance	[Redacted]
4.4.3	k_p^c	[Redacted]
4.4.4	Kinetic order	[Redacted]
4.4.5	k_p^c / k_p^a	[Redacted]
4.4.6	Reaction quantum yield (ϕ_E^c)	[Redacted]
4.4.7	k_{pE}	[Redacted]
4.4.8	Half-life ($t_{1/2E}$)	[Redacted]
4.5	Specification of the transformation products	[Redacted]

Section
A7.1.1.1.2/01/02

Phototransformation in water including identity of transformation products

Annex Point IIA,
VII.7.6.2.1

5 APPLICANT'S SUMMARY AND CONCLUSION

- 5.1 Materials and methods** IPBC was dissolved in ethanol and exposed to sunlight lamps and UV lamps for up to 50 days. In addition, wood slices were dipped in an IPBC solution and irradiated for up to 50 days.
Extracts were analysed by GC-MS.
- 5.2 Results and discussion** In irradiated ethanol solutions approximately 25 % of the initial IPBC was degraded within 17 days of exposure.
Results on the decomposition of IPBC in wood suggest that photodegradation will also occur in a thin layer of the wood surface. After 25 to 50 days of irradiation the recovery rate of IPBC decreased to approximately 40 to 50 %.
IPBC was converted to propargyl butyl carbamate (PBC) by photolytic cleavage of the carbon-iodine bond and release of the iodine.
- 5.2.1 k_p^c Not indicated
- 5.2.2 K_{pE} Not indicated
- 5.2.3 ϕ_E^c Not indicated
- 5.2.4 $t_{1/2E}$ Not indicated
- 5.3 Conclusion** The test results show that IPBC may be subject to photolytical degradation.
- 5.3.1 Reliability **■**
- 5.3.2 Deficiencies Yes
The publication shows methodological and reporting deficiencies. However, the test results show that IPBC may be subject to photolytical degradation.

**Section
A7.1.1.1.2/01/02**

**Phototransformation in water including identity of
transformation products**

Annex Point IIA,
VII.7.6.2.1

Evaluation by Competent Authorities

EVALUATION BY RAPPORTEUR MEMBER STATE

Date

[REDACTED]

Materials and Methods

[REDACTED]

Results and discussion

[REDACTED]

[REDACTED]

[REDACTED]

Conclusion

[REDACTED]

Reliability

[REDACTED]

Acceptability

[REDACTED]

Section A7.1.1.1.2/03 Phototransformation in water including identity of transformation products

Annex Point IIA,
VII.7.6.2.2

Addendum 2 to Dossier

- 3.2 Reference substance [Redacted]
- 3.3 Test solution [Redacted]
- 3.4 Testing procedure [Redacted]
- 3.4.1 Test system [Redacted]
- 3.4.2 Properties of light source [Redacted]
- 3.4.3 Determination of irradiance [Redacted]
- 3.4.4 Temperature [Redacted]
- 3.4.5 pH [Redacted]
- 3.4.6 Duration of the test [Redacted]
- 3.4.7 Number of replicates [Redacted]
- 3.4.8 Sampling [Redacted]

Section A7.1.1.1.2/03 Phototransformation in water including identity of transformation products

Annex Point IIA,
VII.7.6.2.2

**Addendum 2 to
Dossier**

3.4.9 Analytical methods

[Redacted]

3.4.10 Calculations

[Redacted]

3.5 Transformation products

[Redacted]

3.5.1 Method of analysis for transformation products

[Redacted]

4 RESULTS

4.1 Screening test

[Redacted]

4.2 Actinometer data

[Redacted]

4.3 Controls

[Redacted]

4.4 Photolysis data

[Redacted]

4.4.1 Concentration values

[Redacted]

Section A7.1.1.1.2/03 Phototransformation in water including identity of transformation products

Annex Point IIA,
VII.7.6.2.2

Addendum 2 to Dossier

4.4.2 Mass balance

[REDACTED]

4.4.3 k_p^c

[REDACTED]

4.4.4 Kinetic order

[REDACTED]

4.4.5 k_p^c / k_p^a

[REDACTED]

4.4.6 Reaction quantum yield (ϕ_E^c)

[REDACTED]

4.4.7 k_{pE}

[REDACTED]

4.4.8 Half-life ($t_{1/2E}$)

[REDACTED]

4.5 Specification of the transformation products

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

The rate of photochemical degradation of IPBC was determined under simulated sunlight in sterilised aqueous buffer solution at pH 7 and natural pond water at a pH value of about 8.5. [REDACTED]

5.2 Results and discussion

The results show that IPBC was stable within 3 days of continuous irradiation (corresponding to 6.1 days natural summer sunlight at latitude 50° N). Since IPBC was stable during the incubation period no half-lives and no quantum yield could be calculated.

5.2.1 k_p^c

Not indicated

5.2.2 K_{pE}

Not indicated

5.2.3 ϕ_E^c

Not indicated

5.2.4 $t_{1/2E}$

Not indicated

5.3 Conclusion

The results of the study demonstrate that IPBC is stable to direct and indirect photolysis in the aquatic environment.

5.3.1 Reliability

[REDACTED]

Section A7.1.1.1.2/03 Phototransformation in water including identity of transformation products

Annex Point IIA,
VII.7.6.2.2

**Addendum 2 to
Dossier**

5.3.2 Deficiencies No

Evaluation by Competent Authorities

Evaluation by Competent Authorities	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	██████████
Materials and Methods	████████████████████
Results and discussion	██████████████████
Conclusion	██████████████████
Reliability	██████████████
Acceptability	██████████
Remarks	
COMMENTS FROM ...	
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	

Section A7.1.1.2.1/01 Biodegradability (ready)

**Annex Point IIA,
VII.7.6.1.1**

3.1.8	Specific chemical analysis	[Redacted]
3.2	Reference substance	[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]
3.3.3	Test conditions	[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	[Redacted]
3.3.9	Intermediates/ degradation products	[Redacted]
3.3.10	Nitrate/nitrite measurement	[Redacted]
3.3.11	Controls	[Redacted]
3.3.12	Statistics	[Redacted]

4 RESULTS

4.1 Degradation of test substance

Section A7.1.1.2.1/01 Biodegradability (ready)**Annex Point IIA,
VII.7.6.1.1**

4.1.1	Graph	[REDACTED]
4.1.2	Degradation	-24 to -26 % after 28 days based on ThOD _{NH4} -20 to -22 % after 28 days based on ThOD _{NO3} The biochemical oxygen demand (BOD) of the test item IPBC in the test media was lower than in the inoculum controls. Consequently, IPBC was found to be not biodegradable under the test conditions within 28 days.
4.1.3	Other observations	[REDACTED]
4.1.4	Degradation of TS in abiotic control	[REDACTED]
4.1.5	Degradation of reference substance	[REDACTED]
4.1.6	Intermediates/ degradation products	[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1	Materials and methods	A manometric respirometry test was conducted according to OECD Guideline 301 F over a period of 28 days.
5.2	Results and discussion	[REDACTED]
5.3	Conclusion	According to the guideline all validity criteria were fulfilled. IPBC was not ready biodegradable under the test conditions within 28 days.
5.3.1	Reliability	[REDACTED]
5.3.2	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	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]

Section A7.1.1.2.1/01 Biodegradability (ready)

Annex Point IIA,
VII.7.6.1.1

Conclusion	[REDACTED]
Reliability	[REDACTED]
Acceptability	[REDACTED]
Remarks	
	COMMENTS FROM ...
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]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
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[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

[REDACTED]

Section A7.1.1.2.2/01 Biodegradability (inherent)

**Annex Point IIA,
VII.7.6.1.2**

Official
use only

1 REFERENCE

1.1 Reference Seyfried, B. (2004): Inherent biodegradability of IPBC in a modified "Zahn-Wellens / EMPA Test"; RCC Ltd, Environmental Chemistry & Pharamalytics Division; Itingen, Switzerland; Lab.-Study No.: 851399; 12.08.2004; Doc. No. 713-007; unpublished

1.2 Data protection

1.2.1 Data owner

1.2.2 Companies with letter of access

1.2.3 Criteria for data protection

2 GUIDELINES AND QUALITY ASSURANCE

2.1 Guideline study Yes, OECD guideline 302 B

2.2 GLP

2.3 Deviations Yes: instead of DOC (COD) measurement, biodegradation was monitored with specific analysis of IPBC and of its degradation product PBC in the aqueous phase and in the activated sludge

3 MATERIAL AND METHODS

3.1.1 Test material

3.1.1.1 Lot/Batch number

3.1.1.2 Specification As given in section 2

3.1.1.3 Purity

3.1.1.4 Description of test substance

3.1.1.5 Further relevant properties

3.1.1.6 Composition of Product

3.1.1.7 TS inhibitory to micro-organisms

Section A7.1.1.2.2/01 Biodegradability (inherent)**Annex Point IIA,
VII.7.6.1.2**

3.1.1.8	Specific chemical analysis	[REDACTED]
3.1.2	Test material used as analytical reference item	[REDACTED]
3.1.2.1	Lot/Batch number	[REDACTED]
3.1.2.2	Specification	[REDACTED]
3.1.2.3	Purity	[REDACTED]
3.1.2.4	Description of test substance	[REDACTED]
3.1.2.5	Further relevant properties	[REDACTED]
3.1.2.6	Composition of Product	[REDACTED]
3.1.2.7	TS inhibitory to micro-organisms	[REDACTED]
3.1.2.8	Specific chemical analysis	[REDACTED]
3.2	Reference substance	[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]
3.3.3	Test conditions	[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]

Section A7.1.1.2.2/01 Biodegradability (inherent)

**Annex Point IIA,
VII.7.6.1.2**

3.3.7	Analytical parameter	[Redacted]
3.3.8	Sampling	[Redacted]
3.3.9	Intermediates/ degradation products	[Redacted]
3.3.10	Nitrate/nitrite measurement	[Redacted]
3.3.11	Controls	[Redacted]
3.3.12	Statistics	[Redacted]

4 RESULTS

4.1 Degradation of test substance

4.1.1	Graph	[Redacted]
-------	-------	------------

Section A7.1.1.2.2/01 Biodegradability (inherent)

**Annex Point II A,
VII.7.6.1.2**

4.1.2 Degradation

[Redacted text block containing multiple paragraphs of information under section 4.1.2]

4.1.3 Other observations

[Redacted]

4.1.4 Degradation of procedure control

[Redacted text block]

4.1.5 Degradation of toxicity control

[Redacted text block]

Section A7.1.1.2.2/01 Biodegradability (inherent)

Annex Point IIA,
VII.7.6.1.2

4.1.6 Intermediates/
degradation
products

[REDACTED]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 **Materials and
methods**

A modified Zahn Wellens / EMPS test was conducted according to OECD Guideline 302 B. The biodegradation process was monitored by specific analysis of the test item IPBC and the degradation product PBC in the aqueous phase and in the activated sludge

5.2 **Results and
discussion**

[REDACTED]

[REDACTED]

5.3 **Conclusion**

Based on the measured concentrations of IPBC and PBC, rapid biodegradation of IPBC to PBC and further biodegradation of PBC was shown.

5.3.1 Reliability

■

5.3.2 Deficiencies

No

Evaluation by Competent Authorities

EVALUATION BY RAPPORTEUR MEMBER STATE

Date

[REDACTED]

Materials and Methods

[REDACTED]

Results and discussion

[REDACTED]

Conclusion

[REDACTED]

Reliability

■

Acceptability

[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]

Section A7.1.1.2.3 Biodegradation in seawater

Annex Point IIIA, XII.2.1

JUSTIFICATION FOR NON-SUBMISSION OF DATAOfficial
use only**Other justification****Detailed justification:**

According to the TNsG on data requirements a seawater biodegradation test is required if a substance is to be used or released in marine environments in considerable amounts (e.g. it is known to be repeatedly used or continuously released in marine environments).



Therefore, a study on biodegradation in seawater is not regarded to be warranted.

Evaluation by Competent Authorities

Use separate "evaluation boxes" to provide transparency as to the comments and views submitted

EVALUATION BY RAPPORTEUR MEMBER STATE**Date****Evaluation of applicant's justification****Conclusion****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 A7.1.2.1.1 Aerobic biodegradation

Annex Point IIIA, XI.-2.1

JUSTIFICATION FOR NON-SUBMISSION OF DATA

Official use only

Other justification

Detailed justification:

[REDACTED]

Therefore, a study on aerobic biodegradation is not regarded to be warranted.

Evaluation by Competent Authorities

Use separate "evaluation boxes" to provide transparency as to the comments and views submitted

EVALUATION BY RAPPORTEUR MEMBER STATE

Date

[REDACTED]

Evaluation of applicant's justification

[REDACTED]

Conclusion

[REDACTED]

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 A7.1.2.1.2 Anaerobic biodegradation	
Annex Point IIIA, XII.2.1	
JUSTIFICATION FOR NON-SUBMISSION OF DATA	
Official use only	
Other justification	
Detailed justification:	<p>According to the TNsG on data requirements, an anaerobic biodegradation study is not required for product type PT 8 (wood preservatives).</p> <p>Therefore, a study on anaerobic biodegradation is not regarded to be warranted for IPBC.</p>
Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	██████████
Evaluation of applicant's justification	██
Conclusion	██
Remarks	
COMMENTS FROM OTHER MEMBER STATE <i>(specify)</i>	
Date	<i>Give date of comments submitted</i>
Evaluation of applicant's justification	<i>Discuss if deviating from view of rapporteur member state</i>
Conclusion	<i>Discuss if deviating from view of rapporteur member state</i>
Remarks	

Section 7.1.2.2.2/01
Annex Point IIIA, XII.2.1

Water/sediment study under anaerobic conditions

		Official use only
	1 REFERENCE	
1.1 Reference	Blumhorst, M. R. (1992): Anaerobic aquatic metabolism study of P-100; EPL Bio-Analytical Services Inc., Harristown, IL, U.S.A.; Study No.: 147-003; Doc. No. 715-001; 24.08.1992; (unpublished)	
1.2 Data protection	█	
1.2.1 Data owner	█	
1.2.2 Companies with letter of access	█	
1.2.3 Criteria for data protection	█	
	2 GUIDELINES AND QUALITY ASSURANCE	
2.1 Guideline study	Yes, U.S. EPA Pesticide Assessment Guidelines, Subdivision N, § 162-3, Chemistry: Environmental Fate	
2.2 GLP	█	
2.3 Deviations	No	
	3 MATERIAL AND METHODS	
3.1 Test material	█ █	
3.1.1 Lot/Batch number	█ █	
3.1.2 Specification	As given in section 2	
3.1.3 Purity	█ █	
3.1.4 Description of test substance	█	
3.1.5 Further relevant properties	█ █	
3.1.6 Composition of Product	█	
3.1.7 TS inhibitory to microorganisms	█ █	
3.1.8 Specific chemical analysis	█	

Section 7.1.2.2/01 **Water/sediment study under anaerobic conditions**
Annex Point IIIA, XII.2.1

3.2	Reference substance	[Redacted]
3.2.1	Initial concentration of reference substance	[Redacted]
3.3	Test solution	[Redacted]
3.3	Testing procedure	[Redacted]
3.3.1	Water/sediment systems	[Redacted]
3.3.2	Test system	[Redacted]
3.3.3	Temperature	[Redacted]
3.3.4	Initial TS concentration	[Redacted]
3.3.5	Duration of test	[Redacted]
3.3.6	Analytical parameter	[Redacted]

Section 7.1.2.2.2/01 Water/sediment study under anaerobic conditions
Annex Point IIIA, XII.2.1

3.3.7 Sampling

[Redacted text block for 3.3.7]

3.3.8 Sampling and Analytical methods

[Redacted text block for 3.3.8]

3.3.9 Statistics

[Redacted text block for 3.3.9]

Section 7.1.2.2/01 **Water/sediment study under anaerobic conditions**
Annex Point IIIA, XII.2.1

4 **RESULTS**

4.1 **Material balance**

[Redacted text block for section 4.1]

4.2 **Distribution of radioactivity between water and sediment**

[Redacted text block for section 4.2]

4.3 **Concentration – time data**

[Redacted text block for section 4.3]

Section 7.1.2.2.2/01 Water/sediment study under anaerobic conditions
Annex Point IIIA, XII.2.1

4.4 Dissipation time

[Redacted text block for section 4.4]

4.5 Specification of the transformation products

[Redacted text block for section 4.5]

5 APPLICANT'S SUMMARY AND CONCLUSION

5.1 Materials and methods

The anaerobic biodegradation test was conducted according to U.S. EPA Pesticide Assessment Guidelines, Subdivision N, § 162-3, Chemistry: Environmental Fate.

¹⁴C-IPBC was applied to a natural water/sediment system and incubated under anaerobic conditions at 22 ± 2°C in the dark. Water and sediment samples were taken up to 244 days after treatment.

5.2 Results and discussion

IPBC was rapidly degraded in anaerobic aquatic systems with a half-life of 1.5 hours. IPBC remained predominantly in the water layer but degradation products were similar between water and sediment. [Redacted]





[Redacted text block for section 5.2]

Section 7.1.2.2/01 Water/sediment study under anaerobic conditions
Annex Point IIIA, XII.2.1


Conclusion	[REDACTED]
Reliability	[REDACTED]
Acceptability	[REDACTED]
Remarks	[REDACTED]

	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	






Section A7.1.3/01**Adsorption / Desorption screening test****Annex Point IIA, VII.7.7****Official
use only****1 REFERENCE**

- 1.1 Reference** Schneider, U. (2002): Estimation of the adsorption coefficient on soil and on sewage sludge using HPLC; Infracor GmbH, Analytisch Technische Services, Marl, Germany; Lab.-Report No.: AN-ASB 0203; Doc. No. 731-003; 02.04.2002; (unpublished)
- 1.2 Data protection** 
- 1.2.1 Data owner** 
- 1.2.2 Companies with letter of access** 
- 1.2.3 Criteria for data protection** 

2 GUIDELINES AND QUALITY ASSURANCE

- 2.1 Guideline study** Yes
EEC-No. C.19 and OECD Guideline No. 121
- 2.2 GLP** 
- 2.3 Deviations** No

3 MATERIAL AND METHODS

- 3.1 Test material** 
- 3.1.1 Lot/Batch number** 
- 3.1.2 Specification** As given in section 2
- 3.1.3 Purity** 
- 3.1.4 Description of test substance** 
- 3.1.5 Further relevant properties** 

Section A7.1.3/01 Adsorption / Desorption screening test

Annex Point IIA, VII.7.7

3.1.6	Method of analysis	[Redacted]
3.2	Degradation products	[Redacted]
3.2.1	Method of analysis for degradation products	[Redacted]
3.3	Reference substance	[Redacted]
3.3.1	Method of analysis for reference substance	[Redacted]
3.4	Soil types	[Redacted]
3.5	Testing procedure	
3.5.1	Test system	[Redacted]
3.5.2	Test solution and Test conditions	[Redacted]
3.6	Test performance	
3.6.1	Preliminary test	[Redacted]
3.6.2	Screening test: Adsorption	[Redacted]
3.6.3	Screening test: Desorption	[Redacted]
3.6.4	HPLC-method	[Redacted]

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

Section A7.1.3/01 Adsorption / Desorption screening test**Annex Point IIA, VII.7.7**

3.6.5 Other test

[REDACTED]

4 RESULTS

4.1 Preliminary test

[REDACTED]

4.2 Screening test:
AdsorptionThe adsorption coefficient of IPBC on soil was found to be $K_{oc} = 126$ ($\log K_{oc} = 2.1$).4.3 Screening test:
Desorption

Not applicable

4.4 Calculations

4.4.1 K_a , K_d

Not determined.

4.4.2 $K_{a_{oc}}$, $K_{d_{oc}}$ $K_{oc} = 126$ 4.5 Degradation
product(s)

Not applicable

5 APPLICANT'S SUMMARY AND CONCLUSION5.1 Materials and
methodsThe adsorption coefficient (K_{oc}) of IPBC was determined according to EEC-No. C.19 and OECD Guideline No. 121.5.2 Results and
discussionThe adsorption coefficient on soil (K_{oc}) of IPBC was determined using the HPLC method. With the HPLC method the retention of IPBC in a HPLC system was compared with the retention of six calibration substances with known K_{oc} values.The adsorption coefficient of IPBC on soil was found to be $K_{oc} = 126$ ($\log K_{oc} = 2.1$).

5.2.1 Adsorbed a.s. [%]

Not applicable.

5.2.2 K_a

Not applicable.

5.2.3 K_d

Not applicable.

5.2.4 $K_{a_{oc}}$ $K_{oc} = 126$ ($\log K_{oc} = 2.1$).5.2.5 K_a/K_d

Not applicable.

5.2.6 Degradation
products (% of a.s.)

Not applicable.

5.3 Conclusion

[REDACTED]

The adsorption coefficient of IPBC on soil, determined with the HPLC method, was found to be $K_{oc} = 126$ ($\log K_{oc} = 2.1$).

5.3.1 Reliability

[REDACTED]

5.3.2 Deficiencies

No

Section A7.1.3/01 Adsorption / Desorption screening test

Annex Point IIA, VII.7.7

Evaluation by Competent Authorities	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Reliability	[REDACTED]
Acceptability	[REDACTED]
Remarks	
COMMENTS FROM ...	
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]
[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]

Section A7.1.3/02 Adsorption / Desorption screening test

Annex Point IIA, VII.7.7



Official
use only

1 REFERENCE

- 1.1 Reference** Blumhorst, M. R. (1990): Adsorption/Desorption studies – Batch equilibrium for P-100; EPL Bio-Analytical Services Inc., Harristown, IL, U.S.A.; Study No.: 147-002; Doc. No. 731-001; 29.10.1990 (unpublished)
- 1.2 Data protection** [Redacted]
- 1.2.1 Data owner** [Redacted]
- 1.2.2 Companies with letter of access** [Redacted]
- 1.2.3 Criteria for data protection** [Redacted]

2 GUIDELINES AND QUALITY ASSURANCE

- 2.1 Guideline study** Yes,
U.S. EPA Pesticide Assessment Guidelines, Subdivision N, § 163-1,
Chemistry: Environmental Fate
- 2.2 GLP** [Redacted]
- 2.3 Deviations** No

3 MATERIAL AND METHODS

- 3.1 Test material** [Redacted]
- 3.1.1 Lot/Batch number** [Redacted]
- 3.1.2 Specification** As given in section 2
- 3.1.3 Purity** [Redacted]
- 3.1.4 Description of test substance** [Redacted]
- 3.1.5 Further relevant properties** [Redacted]
- 3.1.6 Method of analysis** [Redacted]

Section A7.1.3/02 Adsorption / Desorption screening test

Annex Point IIA, VII.7.7

3.2	Degradation products	[Redacted]
3.2.1	Method of analysis for degradation products	[Redacted]
3.3	Reference substance	[Redacted]
3.3.1	Method of analysis for reference substance	[Redacted]
3.4	Soil types	[Redacted]
3.5	Testing procedure	
3.5.1	Test system	[Redacted]
3.5.2	Test solution and Test conditions	[Redacted]
3.6	Test performance	
3.6.1	Preliminary test	[Redacted]
3.6.2	Screening test: Adsorption	[Redacted]

Section A7.1.3/02 Adsorption / Desorption screening test

Annex Point IIA, VII.7.7

3.6.3 Screening test:
 Desorption

[REDACTED]

3.6.4 HPLC-method

[REDACTED]

3.6.5 Other test

[REDACTED]

4 RESULTS

4.1 Preliminary test

[REDACTED]

4.2 Screening test:
 Adsorption

[REDACTED]

4.3 Screening test:

[REDACTED]

² OECD (1999) OECD-Guidelines for the Testing of Chemicals. Proposal for a new guideline 121: Estimation of the adsorption coefficient (K_{OC}) on soil and on sewage sludge using High Performance Liquid Chromatography (HPLC), Draft Document (August 1999).

Section A7.1.3/02 Adsorption / Desorption screening test**Annex Point IIA, VII.7.7**

Desorption	[REDACTED]
4.4 Calculations	
4.4.1 K_{ads} , K_{des}	[REDACTED]
4.4.2 $K_{a_{oc}}$, $K_{d_{oc}}$	[REDACTED]
4.5 Degradation product(s)	[REDACTED]
5 APPLICANT'S SUMMARY AND CONCLUSION	
5.1 Materials and methods	<p>The adsorption/desorption test was conducted according to U.S. EPA Pesticide Assessment Guidelines, Subdivision N, § 163-1, Chemistry: Environmental Fate.</p> <p>The adsorption/desorption of IPBC by five different soils was investigated via the batch equilibrium method.</p>
5.2 Results and discussion	[REDACTED]
5.2.1 Adsorbed a.s. [%]	7.99 - 37.9 %
5.2.2 K_{ads}	0.676 - 2.46
5.2.3 K_{des}	3.43 - 31.3
5.2.4 $K_{a_{oc}}$	61.0 - 309
5.2.5 $K_{d_{oc}}$	457 - 4065
Degradation products (% of a.s.)	Propargyl butyl carbamate (PBC)
5.3 Conclusion	[REDACTED]
	The adsorption coefficients of IPBC on soil, determined with the batch equilibrium method, were found to range from 61 to 309. IPBC adsorption did not appear to be highly correlated with soil organic matter content, clay content or cation exchange capacity.
5.3.1 Reliability	[REDACTED]
5.3.2 Deficiencies	No

Section A7.1.3/02 Adsorption / Desorption screening test

Annex Point IIA, VII.7.7

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	[REDACTED]
Materials and Methods	[REDACTED]
Results and discussion	[REDACTED]
Conclusion	[REDACTED]
Reliability	[REDACTED]
Acceptability	[REDACTED]
Remarks	[REDACTED]
COMMENTS FROM ...	
Date	<i>Give date of comments submitted</i>

Section A7.1.4.1 Field study on accumulation in the sediment

Annex Point IIIA, XII.2.1

JUSTIFICATION FOR NON-SUBMISSION OF DATA

Official use only

Other justification

Detailed justification:

According to the TNsG on data requirements, a field study on accumulation in the sediment is required if non-extractable residues are formed exceeding 70 % of the initial dose in the water/sediment study or if the mineralisation rate in the water/sediment study is less than 5 % in 100 days.



Therefore, a field study on accumulation in the sediment is not regarded to be warranted.

Evaluation by Competent Authorities

Use separate "evaluation boxes" to provide transparency as to the comments and views submitted

EVALUATION BY RAPPORTEUR MEMBER STATE

Date



Evaluation of applicant's justification



Conclusion



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 7.2.1/01
Annex Point IIIA, VII.4,
XII.1.1

Aerobic degradation in soil, initial study



1 REFERENCE

Official
use only

- 1.1 Reference** Blumhorst, M. R. (1992): Aerobic soil metabolism of P-100; EPL Bio-Analytical Services Inc., Harristown, IL, U.S.A.; Study No.: 147-004; Doc. No. 722-001; 05.05.1992; (unpublished)
- 1.2 Data protection** [REDACTED]
- 1.2.1 Data owner** [REDACTED]
- 1.2.2 Companies with letter of access** [REDACTED]
- 1.2.3 Criteria for data protection** [REDACTED]

2 GUIDELINES AND QUALITY ASSURANCE

- 2.1 Guideline study** Yes, U.S. EPA Pesticide Assessment Guidelines, Subdivision N, § 162-1, Chemistry: Environmental Fate
- 2.2 GLP** [REDACTED]
- 2.3 Deviations** No

3 MATERIAL 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 Description of test substance** [REDACTED]
- 3.1.5 Further relevant properties** [REDACTED]
- 3.1.6 Composition of Product** [REDACTED]

Section 7.2.1/01

Aerobic degradation in soil, initial study

Annex Point IIIA, VII.4,
XII.1.1

3.1.7	TS inhibitory to microorganisms	[Redacted]
3.1.8	Specific chemical analysis	[Redacted]
3.2	Reference substance	[Redacted]
3.2.1	Initial concentration of reference substance	[Redacted]
3.3	Test solution	[Redacted]
3.4	Testing procedure	
3.4.1	Test soil	[Redacted]
3.4.2	Test system	[Redacted]
		[Redacted]
3.4.3	Temperature	[Redacted]
3.4.4	Initial TS concentration	[Redacted]
3.4.5	Duration of test	[Redacted]
3.4.6	Analytical parameter	[Redacted]
3.4.7	Sampling	[Redacted]

Section 7.2.1/01

Aerobic degradation in soil, initial study

Annex Point IIIA, VII.4,
XII.1.1

3.4.8 Analytical methods

[Redacted text block]

3.4.9 Calculations

[Redacted text block]

4 RESULTS

4.1 Material balance

[Redacted text block]

4.2 Distribution of radioactivity

[Redacted text block]

Section 7.2.1/01

Aerobic degradation in soil, initial study

Annex Point IIIA, VII.4,
XII.1.1

**4.3 Concentration –
time data**

[Redacted]

**4.4 Specification of
the transformation
products**

[Redacted]

4.5 Dissipation time

Soil DT₅₀ and DT₉₀ values of IPBC and propargyl butyl carbamate were calculated assuming pseudo first-order kinetics (see table A7.2.1/01-8).

DT₅₀ of IPBC:

- 2.13 hours (nonsterile, 22°C)
- 8.6 hours (nonsterile, 5°C)

DT₅₀ of PBC:

- 4.3 days (nonsterile, 22°C)

5 APPLICANT'S SUMMARY AND CONCLUSION

**5.1 Materials and
methods**

The aerobic biodegradation test was conducted according to U.S. EPA Pesticide Assessment Guidelines, Subdivision N, § 162-1, Chemistry: Environmental Fate.

[Redacted]

**5.2 Results and
discussion**

[Redacted]

Section 7.2.1/01 Aerobic degradation in soil, initial study
Annex Point IIIA, VII.4, XII.1.1

Conclusion	[REDACTED]
Reliability	[REDACTED]
Acceptability	[REDACTED]
Remarks	[REDACTED]
Date	COMMENTS FROM ... (specify) <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]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

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[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]

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