

Lauric acid

(CAS-no. 143-07-7)

Doc III-A

Applicant:

Dr. R. Pflieger Chemische Fabrik GmbH

Version: Mai 2013



Table of Contents

Doc. III-A Section No.	Information, test or study required for active substance		
1	APPLICANT (only headline)		
1.1	Name and address, etc.	01/2006	I
1.2	Active substance manufacturer (name, address, location of plant)	01/2006	I
2.	IDENTITY (only headline)		
2.1	Common name proposed or accepted by ISO and synonyms	01/2006	I
2.2	Chemical name	01/2006	I
2.3	Manufacturer's development code number(s)	01/2006	I
2.4	CAS and EC numbers (only headline)		
2.4.1	CAS number	01/2006	I
2.4.2	EC numbers	01/2006	I
2.4.3	Other substance No.	01/2006	I
2.5	Molecular and structural formula, molecular mass (only headline)		
2.5.1	Molecular formula	01/2006	I
2.5.2	Structural formula	01/2006	I
2.5.3	Molecular mass	01/2006	I
2.6	Method of manufacture of the active substance	01/2006	I
2.7	Specification of purity of the active substance, as appropriate	11/2006	I
2.8	Identity of impurities and additives, as appropriate (only headline)		
2.8.1	Common name and function	11/2006	I
2.8.2	IUPAC name	11/2006	I
2.8.3	CAS No.	11/2006	I
2.8.4	EC No.: EINECS	11/2006	I
2.8.5	Other	11/2006	I
2.8.6	Molecular formula	11/2006	I
2.8.7	Structural formula	11/2006	I
2.8.8	Molecular mass	11/2006	I
2.8.9	Concentration of the impurity or additive	11/2009	I
2.9	The origin of the natural active substance or the precursor(s) of the active substance	01/2006	I
2.10	Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L 154, 5.6.1992, p.1) amending Council Directive 67/548/EEC (only headline).		

2.10.1	Human exposure towards active substance (only headline)		
2.10.1.1	Production	12/2006	I
2.10.1.2	Intended use(s)	01/2006	I
2.10.2	Environmental exposure towards active substance (only headline)		
2.10.2.1	Production	06/2006	I
2.10.2.2	Intended use(s)	08/2008	I
3.	PHYSICAL AND CHEMICAL PROPERTIES (only headline)		
3.1	Melting point, boiling point, relative density (only headline)		
3.1.1	Melting point	05/2007	I
3.1.2	Boiling point	05/2007	I
3.1.3	Bulk density/relative density	10/2007	I
3.2	Vapour pressure	10/2007	I
3.2.1	Henry's law constant	10/2007	I
3.3	Appearance (only headline)		
3.3.1	Physical state	10/2007	I
3.3.2	Colour	10/2007	I
3.3.3	Odour	10/2007	I
3.4	Absorption spectra (UV/VIS, IR, NMR), and a mass spectrum, molar extinction at relevant wavelengths, where relevant (only headline)		
3.4.1	UV/VIS	11/2006	I
3.4.2	IR	05/2007	I
3.4.3	NMR	10/2007	I
3.4.4	MS	10/2007	I
3.5	Solubility in water	10/2007	I
3.6	Dissociation constant	10/2007	I
3.7	Solubility in organic solvents, including the effect of temperature on solubility	01/2006	I
3.8	Stability in organic solvents used in biocidal products and identity of relevant breakdown products	01/2006	I
3.9	Partition coefficient n-octanol/water including effect of pH (5 to 9) and temperature	05/2007	I
3.10	Thermal stability, identity of relevant breakdown products	11/2009	I
3.11	Flammability including auto-flammability and identity of combustion products	06/2006	I
3.12	Flash-point	01/2006	I
3.13	Surface tension	05/2007	I
3.14	Viscosity	01/2006	I
3.15	Explosive properties	06/2006	I
3.16	Oxidizing properties	06/2006	I
3.17	Reactivity towards container material	06/2006	I

4.	ANALYTICAL METHODS FOR DETECTION AND IDENTIFICATION (only headline)		
4.1	Analytical methods for the determination of pure active substance and, where appropriate, for relevant degradation products, isomers and impurities of active substances and their additives (e.g. stabilisers)	11/2006	I
4.2	Analytical methods including recovery rates and the limits of determination for the active substance, and for residues thereof, and where relevant in/on the following: (a) Soil (b) Air (c) Water (d) Animal and human body fluids and tissues	01/2006	I
4.3	Analytical methods including recovery rates and the limits of determination for the active substance, and for residues thereof, in/on food or feedstuffs and other products where relevant	01/2006	I
5.	EFFECTIVENESS AGAINST TARGET ORGANISMS AND INTENDED USES (only headline)		
5.1	Function, for example fungicide, rodenticide, insecticide, bactericide	01/2006	I
5.2	Organism(s) to be controlled and products, organisms or objects to be protected (only headline)		
5.2.1	Organism(s) to be controlled	01/2006	I
5.2.2	Products, objects or organisms to be protected	01/2006	I
5.3	Effects on target organisms, and likely concentration at which the active substance will be used (only headline)		
5.3.1	Effects on target organisms	01/2006	I
5.3.2	Likely concentrations at which the active substance will be used	11/2007	I
5.4	Mode of action (including time delay) (only headline)		
5.4.1	Mode of action	01/2006	I
5.4.2	Time delay	01/2006	I
5.5	Field of use envisaged	01/2006	I
5.6	User: industrial, professional, general public (non-professional)	01/2006	I
5.7	Information on the occurrence or possible occurrence of the development of resistance and appropriate management strategies (only headline)		
5.7.1	Development of resistance	01/2006	I
5.7.2	Management strategies	01/2006	I
5.8	Likely tonnage to be placed on the market per year	11/2007	I
6.	TOXICOLOGICAL AND METABOLIC STUDIES (only headline)		
6.1.	Acute toxicity (only headline)		
6.1.1.	Oral	01/2006	I
6.1.2.	Dermal	06/2006	I

6.1.3.	Inhalation	01/2006	I
6.1.4.	Skin and eye irritation	01/2006	I
6.1.5.	Skin sensitisation	06/2006	I
6.2.	Metabolism studies in mammals. Basic toxicokinetics, including a dermal absorption study	06/2006	I
6.3.	Short-term repeated dose toxicity (28 days) (only headline)		
6.3.1	Repeated dose toxicity (oral)	01/2006	I
6.3.2	Repeated dose toxicity (dermal)	01/2006	I
6.3.3	Repeated dose toxicity (inhalation)	01/2006	I
6.4	Subchronic toxicity (only headline)		
6.4.1	Subchronic oral toxicity test	06/2006	I
6.4.2	Subchronic dermal toxicity test	01/2006	I
6.4.3	Subchronic inhalation toxicity test	01/2006	I
6.5	Chronic toxicity	06/2006	I
6.6.	Genotoxicity studies (only headline)		
6.6.1.	In-vitro gene mutation study in bacteria	01/2006	I
6.6.2.	In-vitro cytogenicity study in mammalian cells	01/2006	I
6.6.3.	In-vitro gene mutation assay in mammalian cells	01/2006	I
6.6.4.	If positive in 6.6.1, 6.6.2 or 6.6.3, then an in-vivo mutagenicity study will be required (bone marrow assay for chromosomal damage or a micronucleus test)	01/2006	I
6.6.5.	If negative in 6.6.4 but positive in-vitro tests then undertake a second in-vivo study to examine whether mutagenicity or evidence of DNA damage can be demonstrated in tissue other than bone marrow	01/2006	I
6.6.6.	If positive in 6.6.4 then a test to assess possible germ cell effects may be required	01/2006	I
6.6.7	If the results are negative for the three tests 6.6.1, 6.6.2 and 6.6.3, then further testing is normally only required if metabolites of concern are formed in mammals	01/2006	I
6.7.	Carcinogenicity study	01/2006	I
6.8.	Reproductive toxicity (only headline)		
6.8.1.	Teratogenicity test	06/2006	I
6.8.2.	Two generations reproduction study	01/2006	I
6.9	Neurotoxicity study	01/2006	I
6.10	Mechanistic study - any studies necessary to clarify effects reported in toxicity studies	01/2006	I
6.11	Studies on other routes of administration (parenteral routes)	01/2006	I
6.12	Medical data in anonymous form (only headline)		
6.12.1	Medical surveillance data on manufacturing plant personnel if available	01/2006	I
6.12.2	Direct observation, e.g. clinical cases, poisoning incidents if available	01/2006	I

6.12.3	Health records, both from industry and any other available sources	01/2006	I
6.12.4	Epidemiological studies on the general population, if available	01/2006	I
6.12.5	Diagnosis of poisoning including specific signs of poisoning and clinical tests, if available	01/2006	I
6.12.6	Sensitisation/allergenicity observations, if available	01/2006	I
6.12.7	Specific treatment in case of an accident or poisoning: first aid measures, antidotes and medical treatment, if known	01/2006	I
6.12.8	Prognosis following poisoning	01/2006	I
6.13	Toxic effects on livestock and pets	01/2006	
6.14	Other test(s) related to the exposure of humans	01/2006	I
6.15	Food and feedingstuffs (only headline)		
6.15.1	Identification of the residues (identity and concentrations), degradation and reaction products and of metabolites of the active substance in contaminated foods or feedingstuffs	01/2006	I
6.15.2	Behaviour of the residues of the active substance, its degradation and reaction products and where relevant, its metabolites on the treated or contaminated food or feedingstuffs including the kinetics of disappearance	01/2006	I
6.15.3	Estimation of potential or actual exposure of the active substance to humans through diet and other means	01/2006	I
6.15.4	Proposed acceptable residues and the justification of their acceptability	01/2006	I
6.15.5	Any other available information that is relevant	01/2006	I
6.15.6	Summary and evaluation of data submitted under point 6.15	01/2006	I
6.16	Any other tests related to the exposure of the active substance to humans, in its proposed biocidal products, that are considered necessary may be required	01/2006	I
6.17	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	01/2006	I
6.18	Summary of mammalian toxicology and conclusions (in Doc. II-A)	01/2006	I
7.	ECOTOXICOLOGICAL PROFILE INCLUDING ENVIRONMENTAL FATE AND BEHAVIOUR		
7.1	Fate and behaviour in water (only headline)		
7.1.1	Degradation, initial studies (only headline)		
7.1.1.1	Abiotic (only headline)		
7.1.1.1.1	Hydrolysis as a function of pH and identification of breakdown products	01/2006	I
7.1.1.1.2	Phototransformation in water including identity of the products of transformation	01/2006	I
7.1.1.2	Biotic (only headline)		
7.1.1.2.1	Ready biodegradability	09/2007	I
7.1.1.2.2	Inherent biodegradability, where appropriate	01/2006	I

7.1.1.2.3	Biodegradation in seawater	01/2006	I
7.1.2	Rate and route of degradation in aquatic systems including identification of metabolites and degradation products (only headline)	01/2006	I
7.1.2.1	Biological sewage treatment (only headline)		
7.1.2.1.1	Aerobic biodegradation	01/2006	I
7.1.2.1.2	Anaerobic biodegradation	01/2006	I
7.1.2.2	Biodegradation in freshwater(only headline)		
7.1.2.2.1	Aerobic aquatic degradation study	01/2006	I
7.1.2.2.2	Water/sediment degradation study	01/2006	I
7.1.3	Adsorption/desorption screening test	11/2008	I
7.1.4	Further studies on adsorption and desorption in water/sediment systems and, where relevant, on the adsorption and desorption of metabolites and degradation products where the preliminary risk assessment indicates that it is necessary	01/2006	I
7.1.4.1	Field study on accumulation in the sediment	01/2006	I
7.2	Fate and behaviour in soil (only headline)		
7.2.1	Aerobic degradation in soil, initial study	01/2006	
7.2.2	Aerobic degradation in soil, further studies (only headline)		
7.2.2.1	The rate and route of degradation including identification of the processes involved and identification of any metabolites and degradation products in at least three soil types under appropriate conditions	01/2006	
7.2.2.2	Field soil dissipation and accumulation	01/2006	I
7.2.2.3	Extent and nature of bound residues	01/2006	I
7.2.2.4	Other soil degradation studies	01/2006	I
7.2.3	Adsorption and mobility in soil, further studies (only headline)		
7.2.3.1	Adsorption and desorption in accordance with the new test guideline EC C18 or the corresponding OECD 106 and, where relevant, adsorption and desorption of metabolites and degradation products	01/2006	I
7.2.3.2	Mobility in at least three soil types and where relevant mobility of metabolites and degradation products	01/2006	I
7.3	Fate and behaviour in air (only headline)		
7.3.1	Phototransformation in air (estimation method), including identification of breakdown products	06/2006	I
7.3.2	Fate and behaviour in air, further studies	01/2006	I
7.4	Effects on aquatic organisms (only headline)		
7.4.1	Aquatic toxicity, initial tests (only headline)		
7.4.1.1	Acute toxicity to fish	01/2006	I
7.4.1.2	Acute toxicity to invertebrates	07/2006	I
7.4.1.3	Growth inhibition test on algae	07/2008	I
7.4.1.4	Inhibition to microbiological activity	09/2007	I
7.4.2	Bioconcentration	09/2007	I

7.4.3	Effects on aquatic organisms, further studies (only headline)		
7.4.3.1	Prolonged toxicity to an appropriate species of fish	01/2006	I
7.4.3.2	Effects on reproduction and growth rate on an appropriate species of fish	07/2008	I
7.4.3.3	Bioaccumulation in an aquatic organism (only headline)		
7.4.3.3.1	Bioaccumulation in an appropriate species of fish	01/2006	I
7.4.3.3.2	Bioaccumulation in an appropriate invertebrate species	01/2006	I
7.4.3.4	Effects on reproduction and growth rate with an appropriate invertebrate species	01/2006	I
7.4.3.5	Effects on any other specific, non-target organisms (flora and fauna) believed to be at risk	01/2006	I
7.4.3.5.1	Effects on sediment dwelling organisms	01/2006	I
7.4.3.5.2	Aquatic plant toxicity	01/2006	I
7.5	Effects on terrestrial organisms (only headline)		
7.5.1	Terrestrial toxicity, initial tests (only headline)		
7.5.1.1	Inhibition to microbiological activity	01/2006	I
7.5.1.2	Acute toxicity test to earthworms or other soil non-target organisms	01/2006	I
7.5.1.3	Acute toxicity to plants	01/2006	I
7.5.2	Terrestrial tests, long-term tests (only headline)		
7.5.2.1	Reproduction study with other soil non-target macro-organisms	01/2006	I
7.5.2.2	Long-term test with terrestrial plants	01/2006	I
7.5.3	Effects on birds (only headline)		
7.5.3.1.1	Acute oral toxicity	01/2006	I
7.5.3.1.2	Short-term toxicity	01/2006	I
7.5.3.1.3	Effects on reproduction	01/2006	I
7.5.4	Effects on honeybees (only headline)		
7.5.4.1	Acute toxicity to honeybees and other beneficial arthropods, for example predators	01/2006	I
7.5.5	Bioconcentration, terrestrial	01/2006	I
7.5.5.1	Bioconcentration, further studies	01/2006	I
7.5.6	Effects on other terrestrial non-target organisms	01/2006	I
7.5.7	Effects on mammals (only headline)		
7.5.7.1	For some product types, direct and/or indirect exposure for mammals is possible and some tests with mammals may be required in rare cases on the basis of concern for severe risk for the terrestrial environment	01/2006	I
7.5.7.1.1	Acute oral toxicity	01/2006	I
7.5.7.1.2	Short term toxicity	01/2006	I
7.5.7.1.3	Effects on reproduction	01/2006	I
7.6	Summary of ecotoxicological effects and fate and behaviour in the environment	07/2008	I

8.	MEASURES NECESSARY TO PROTECT MAN, ANIMALS AND THE ENVIRONMENT (only headline)		
8.1.	Recommended methods and precautions concerning handling, use, storage, transport or fire	01/2006	II
8.2.	In case of fire, nature of reaction products, combustion gases, etc.	01/2006	II
8.3.	Emergency measures in case of an accident	01/2006	II
8.4.	Possibility of destruction or decontamination following release in or on the following: (a) air (b) water, including drinking water (c) soil	01/2006	II
8.5.	Procedures for waste management of the active substance for industry or professional users (only headline)		
8.5.1.	Possibility of re-use or recycling	01/2006	II
8.5.2.	Possibility of neutralisation of effects	01/2006	II
8.5.3.	Conditions for controlled discharge including leachate qualities on disposal	01/2006	II
8.5.4.	Conditions for controlled incineration	01/2006	II
8.6.	Observations on undesirable or unintended side-effects, e.g. on beneficial and other non-target organisms	01/2006	II
8.7	Identification of any substances falling within the scope of List I or List II of the Annex to Directive 80/68/EEC on the protection of ground water against pollution caused by certain dangerous substances	01/2006	II
9.	CLASSIFICATION AND LABELLING	06/2006	II
	APPENDIX 1: CONFIDENTIAL DATA	11/2009	II
	APPENDIX 2: REFERENCE LIST	11/2009	II
	APPENDIX 3: SHORT SUMMARY OF KEY STUDIES AND NON KEY STUDIES A.S.	11/2009	II
	APPENDIX 4: PROFILE AND RESULTS OF LITERATURE RESEARCH	06/2006	II

Section A1 Applicant

Annex Point IIA.1

1.1 Applicant

Name: Dr. R. Pflieger Chemische Fabrik GmbH
Address: D-96045 Bamberg
Telephone: 0951/6043-0
Fax number: 0951/6043-29
E-mail address: info@dr-pflieger.de

1.2 Manufacturer of Active Substance (if different)

Name: Acidchem International SDN.BHD
Address: P.O. Box 237, 12720 Butterworth, Penang, Malaysia
Contact over the supplier: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

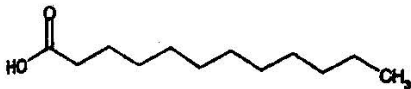
Location of manufacturing plant:
Acidchem International SDN.BHD, 2411. Lrg. Perusahaan Satu, Prai
Industrial Complex, 13600 Prai, Penang, Malaysia

1.3 Manufacturer of Product(s) (if different)
1) Product 1

Dr. R. Pflieger Chemische Fabrik GmbH
see above 1.1 Applicant

Section A2 Identity of Active Substance

Subsection
(Annex Point)Official
use only

2.1	Common name (IIA2.1)	Lauric acid (IUPAC), Laurostearic acid, Dodecoid acid			
2.2	Chemical name (IIA2.2)	Dodecanoic acid			
2.3	Manufacturer's development code number(s) (IIA2.3)	Art. No. 6150			
2.4	CAS No and EC numbers (IIA2.4)				
2.4.1	CAS-No	143-07-7			
	Isomer 1	There is no isomerism of lauric acid known.			
2.4.2	EC-No	205-582-1			
	Isomer 1	There is no isomerism of lauric acid known.			
2.4.3	Other	-			
2.5	Molecular and structural formula, molecular mass (IIA2.5)				
2.5.1	Molecular formula	C ₁₂ H ₂₄ O ₂			
2.5.2	Structural formula				
2.5.3	Molecular mass	M _r 200.32			
2.6	Method of manufacture of the active substance (IIA2.1)	Palm oil, palm kernel oil or RDB stearine are used as starting material. By hydrolysis of water fat splitting is conducted: the fat reacts with water to yield fatty acids and glycerine. The crude fatty acids are purified by fractional distillation. The distillation produces fatty acids of high quality. The results are fatty acids as e.g. lauric acid.			
2.7	Specification of the purity of the active substance, as appropriate (IIA2.7)	g/kg	g/l	% w/w	% v/v
		█ lauric acid	█ lauric acid	█ lauric acid	-
	Content of lauric acid in different batches (determined by the applicant according to Doc. III-A, 4.1)	█	█	█	<u>Batch</u> 37077
		█	█	█	40561
		█	█	█	42731
		█	█	█	43080
		█	█	█	43256
	Average content of lauric acid	█	█	█	

Section A2 Identity of Active Substance

- 2.8 Identity of impurities and additives, as appropriate (IIA2.8)** For identified impurities see separate standard format
In addition:
 [REDACTED] ■ [REDACTED]
 [REDACTED] ■ [REDACTED]
- 2.8.1 Isomeric composition** There is no isomerism of lauric acid known.
- 2.9 The origin of the natural active substance or the precursor(s) of the active substance (IIA2.9)** Natural origin of palm oil, palm kernel oil or RDB Stearine

Evaluation by Competent Authorities

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

EVALUATION BY RAPporteur MEMBER STATE	
Date	<i>Give date of action</i>
Materials and methods	<i>State if the applicant's version is acceptable or indicate relevant discrepancies referring to the (sub) heading numbers and to applicant's summary and conclusion.</i>
Conclusion	<i>Adopt applicant's version or include revised version</i>
Reliability	<i>Based on the assessment of the method include appropriate reliability indicator</i>
Acceptability	<i>acceptable / not acceptable (give reasons if necessary, e.g. if a study is acceptable despite a poor reliability indicator). Discuss the relevance of deficiencies.</i>
Remarks	
COMMENTS FROM ...	
Date	<i>Give date of comments submitted</i>
Results and discussion	<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>
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 A2.8 Identity of impurities and additives (active substance)

Annex Point IIA II2.8 Capric acid

SubsectionOfficial
use only

2.8.1.1 Common name Capric acid

2.8.1.2 Function [REDACTED].

2.8.2 IUPAC name Decanoic acid

2.8.3 CAS-No 334-48-5

2.8.4 EC-No 206-376-4

2.8.5 Other
CIPAC Not listed by CIPAC.2.8.6 Molecular formula $C_{10}H_{20}O_2$ 2.8.7 Structural formula

$$H_3C-(CH_2)_8-\overset{\overset{O}{\parallel}}{C}-OH$$

2.8.8 Molecular mass 172.26

2.8.9 Concentration of the impurity or additive

Content of capric acid in different batches

Average content of capric acid

g/kg

g/l

% w/w

% v/v

Batch

37077

40561

42731

43080

43256

Section A2.8 Identity of impurities and additives (active substance)**Annex Point IIA2.8**

Evaluation by Competent Authorities	
Use separate "evaluation boxes" to provide transparency as to the comments and views submitted	
EVALUATION BY RAPPORTEUR MEMBER STATE	
Date	<i>Give date of action</i>
Materials and methods	<i>State if the applicants version is acceptable or indicate relevant discrepancies referring to the (sub) heading numbers and to applicant's summary and conclusion.</i>
Conclusion	<i>Adopt applicant's version or include revised version</i>
Reliability	<i>Based on the assessment of the method include appropriate reliability indicator</i>
Acceptability	<i>acceptable / not acceptable (give reasons if necessary, e.g. if a study is acceptable despite a poor reliability indicator). Discuss the relevance of deficiencies.</i>
Remarks	
COMMENTS FROM ...	
Date	<i>Give date of comments submitted</i>
Results and discussion	<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>
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 A2.8 Identity of impurities and additives (active substance)

Annex Point IIA II2.8 n-Hexadecanoic acid

SubsectionOfficial
use only

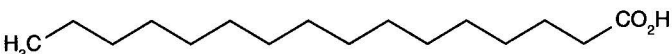
2.8.1.1 Common name n-Hexadecanoic acid

2.8.1.2 Function

2.8.2 IUPAC name Palmitic acid

2.8.3 CAS-No 57-10-3

2.8.4 EC-No 200-312-9

2.8.5 Other
CIPAC Not listed by CIPAC.2.8.6 Molecular formula $C_{16}H_{32}O_2$ 2.8.7 Structural formula 

2.8.8 Molecular mass 256.42

2.8.9 Concentration of
the impurity or
additive

g/kg

g/l

% w/w

% v/v

-

Content of n-
Hexadecanoic acid
in different
batchesBatch

37077

40561

42731

43080

43256

Average content of
Hexadecanoic acid

Section A2.8 Identity of impurities and additives (active substance)**Annex Point IIA2.8**

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	<i>Give date of action</i>
Materials and methods	<i>State if the applicants version is acceptable or indicate relevant discrepancies referring to the (sub) heading numbers and to applicant's summary and conclusion.</i>
Conclusion	<i>Adopt applicant's version or include revised version</i>
Reliability	<i>Based on the assessment of the method include appropriate reliability indicator acceptable / not acceptable</i>
Acceptability	<i>(give reasons if necessary, e.g. if a study is acceptable despite a poor reliability indicator). Discuss the relevance of deficiencies.</i>
Remarks	
	COMMENTS FROM ...
Date	<i>Give date of comments submitted</i>
Results and discussion	<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>
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 A2.8 Identity of impurities and additives (active substance)

Annex Point IIA II2.8

Myristic acid

SubsectionOfficial
use only

2.8.1.1 Common name Myristic acid

2.8.1.2 Function

2.8.2 IUPAC name Myristic acid

2.8.3 CAS-No 544-63-8

2.8.4 EC-No 208-875-2

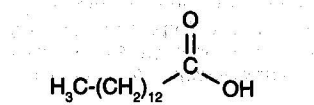
2.8.5 Other

CIPAC Not listed by CIPAC.

Name Tetradecanoic acid

2.8.6 Molecular formula $C_{14}H_{28}O_2$

2.8.7 Structural formula



2.8.8 Molecular mass 228.36

2.8.9 Concentration of
the impurity or
additive

g/kg

g/l

% w/w

% v/v

Content of
myristic acid in
different batchesBatch

37077

40561

42731

43080

43256

Average content of
Myristic acid

Section A2.8 Identity of impurities and additives (active substance)**Annex Point IIA2.8**

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	<i>Give date of action</i>
Materials and methods	<i>State if the applicants version is acceptable or indicate relevant discrepancies referring to the (sub) heading numbers and to applicant's summary and conclusion.</i>
Conclusion	<i>Adopt applicant's version or include revised version</i>
Reliability	<i>Based on the assessment of the method include appropriate reliability indicator</i>
Acceptability	<i>acceptable / not acceptable (give reasons if necessary, e.g. if a study is acceptable despite a poor reliability indicator). Discuss the relevance of deficiencies.</i>
Remarks	
	COMMENTS FROM ...
Date	<i>Give date of comments submitted</i>
Results and discussion	<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>
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 A2.10
Annex Point IIA.2.10

**Exposure data in conformity with Annex VIIA to
 Council Directive 92/32/EEC (OJ No L, 05.06.1992,
 p. 1) amending Council Directive 67/548/EEC**

- (ii) via skin contact The biocidal product is intended for dermal use and it is rinsed off after use. The exposition time of dermal contact is limited. Normally only a few ml lotion will be used for one application (corresponding to [REDACTED] lauric acid). At maximum [REDACTED] the lotion will be applied from one bottle to the human skin.
 The biocidal product is tested on dermal toxicity [REDACTED] [130], and [REDACTED] [20].
 The results show that the biocidal product has [REDACTED].
- (iii) via drinking water The biocidal product is intended for dermal application and it is rinsed off after use. It is not intended for agricultural use which could lead to a contamination of drinking water. Lauric acid as well as the biocidal product is [REDACTED].
- (iv) via food The biocidal product is intended for dermal application and and it is rinsed off after use. It is not intended for the preparation of food or food ingredients. Nevertheless, lauric acid is constituent of regular human food [56, 59, 61, 121].
- (v) indirect via environment The biocidal product is intended for dermal use and and it is rinsed off after use. It is not intended to be distributed in the environment. Lauric acid as well as the biocidal product are readily biodegradable. Moreover, the quantities, rinsed off during washing process are extremely low [REDACTED]. Considering the natural occurrence of lauric acid the additional quantities reaching sewage are absolutely insignificant.

**2.10.2 Environmental
 exposure towards
 active substance**

2.10.2.1 Production

a) Active Substance

- (i) Releases into water Lauric acid is made in Penang, Malaysia. According to the Guidance on data requirements for active substances and biocidal products (Version 4.3.2 October 2000), no data on the description of the manufacturing process for exposure estimation purpose is needed.
- (ii) Releases into air No release into air is possible, because lauric acid is not volatile.
- (iii) Waste disposal Lauric acid is a solid, waxy substance, which is not soluble in water. In addition, the active substance Lauric acid is readily biodegradable [2] and the waste disposal is insignificant for the intended use as repellent on human skin.

b) Biocidal Product

- (i) Releases into water With a mean yield of [REDACTED], about [REDACTED] biocidal product (corresponding to [REDACTED] lauric acid) will remain in the machine after conclusion of the production process. The machine is cleaned with water at a special temperature. For the validated cleaning process about [REDACTED] [REDACTED] used. So the theoretical concentration of lauric acid in the sewage is [REDACTED]. This concentration will be further diluted by amounts of sewage in the local sewage plant. The final concentration of the biocidal product is therefore extremely low and will be reduced additionally in the local sewage plant, because the

Section A2.10
Annex Point IIA.2.10

Exposure data in conformity with Annex VIIA to Council Directive 92/32/EEC (OJ No L, 05.06.1992, p. 1) amending Council Directive 67/548/EEC

	biocidal product is biodegradable. In addition, fatty acids will reach the sewage in much higher quantities as result of ingestion of regular food and different cleaning processes.
(ii) Releases into air	No release to air is possible, because closed machines are used for the production process.
(iii) Waste disposal	The machines are cleaned with water at a special temperature, no other waste results from the production process.
2.10.2.2 Intended use(s)	
Application of the a.s.	The active substance is intended for a preparation of dermal use at human. The active substance will only be used in this preparation.
Application of the b.p.	The biocidal product is intended for dermal use at human as a repellent.
a) Active Substance	
Affected compartment(s):	The active substance is intended for a preparation of dermal use in humans. The active substance will only be used for the preparation in this biocidal product, so there will be no effected compartments by the active substance itself.
water	The active substance is intended for a preparation of dermal use in humans. The active substance will only be used in this preparation, so there will be no effected compartments by the active substance itself.
sediment	The active substance is intended for a preparation of dermal use in humans. The active substance will only be used for the preparation in this biocidal product, so there will be no effected compartments by the active substance itself.
air	The active substance is intended for a preparation of dermal use in humans. The active substance will only be used for the preparation in this biocidal product, so there will be no effected compartments by the active substance itself.
soil	The active substance is intended for a preparation of dermal use in humans. The active substance will only be used for the preparation in this biocidal product, so there will be no effected compartments by the active substance itself.
Predicted concentration in the affected compartment(s):	
water	See b) Biocidal product
sediment	See b) Biocidal product.
air	See b) Biocidal product
soil	See b) Biocidal product
b) Biocidal Product	
Affected compartment(s):	
water	The biocidal product is intended for dermal use at human. After the outdoor exposure the product is rinsed off with water and soap (containing salts of fatty acids). The concentration in water will be very low by the small amounts of used product and by dilution in the

Section A2.10
Annex Point IIA.2.10

**Exposure data in conformity with Annex VIIA to
Council Directive 92/32/EEC (OJ No L, 05.06.1992,
p. 1) amending Council Directive 67/548/EEC**

<p>sediment</p> <p>air</p> <p>soil</p> <p>Predicted concentration in the affected compartment(s) water</p>	<p>effluent system compared to the high amounts of lauric acid, which comes from the regular human food and from the cleaning processes. In addition, lauric acid is readily biodegradable [2] so the compartment of water is not affected by the intended use.</p> <p>The biocidal product is intended for dermal use at human, so no sediment is affected by the product. In addition, the concentration of lauric acid from the biocidal product in the sediment will be extremely low compared to the high amounts of lauric acid, which comes from the regular human food and from the cleaning processes.</p> <p>The physical state of the active substance is solid (melting point [REDACTED]). The boiling point is very high (about [REDACTED]) and so the substance is not volatile. So there is no affection of air.</p> <p>The biocidal product is intended for dermal use at human. No soil is affected by the product.</p> <p><u>Surface water:</u></p> <ul style="list-style-type: none"> - in the surface water from the [REDACTED] $PEC_{local_surface_water} = [REDACTED]$ - in the surface water from use ([REDACTED]): $PEC_{local_surface_water} = [REDACTED]$ - in the surface water from use ([REDACTED]): $PEC_{local_surface_water} = [REDACTED]$ <p>→ $PEC_{local_surface_water_total} = [REDACTED]$</p> <p><u>Sewage treatment:</u></p> <ul style="list-style-type: none"> - in the sewage treatment [REDACTED]: $PEC_{local_STP_water} = [REDACTED]$ <p><u>Ground water:</u></p> <ul style="list-style-type: none"> - in the ground water from the [REDACTED] $PEC_{local_ground_water} = [REDACTED]$ - in the ground water from use ([REDACTED]): $PEC_{local_ground_water} = [REDACTED]$ <p>The $PEC_{local_ground_water}$ from the formulation path is not seen as plausible, because it results in a higher concentration than in the sewage treatment plant. The sludge from the sewage treatment plant is placed on the fields from where it can reach the ground water which results in a dilution effect. In addition, bringing the sludge from the sewage treatment on the fields will be less probable in the future as it is already prohibited in some European countries or will become prohibited.</p> <p>In addition, the concentration of lauric acid from the biocidal product in the sewage water will be extremely low compared to the high amounts of lauric acid, which comes from the regular human food and from the cleaning processes.</p> <p>Because of the ready biodegradability and the small amounts of our product compared to the natural and other sources of lauric acid, the lauric acid from our product will most likely not endanger the ground water.</p> <p>→ $PEC_{local_ground_water_total} = [REDACTED]$</p> <p>sediment</p> <ul style="list-style-type: none"> - in the sediment from the [REDACTED] $PEC_{local_sed} = [REDACTED]$ - in the sediment from use ([REDACTED]) $PEC_{local_sed} = [REDACTED]$ - in the sediment from use ([REDACTED]) $PEC_{local_sed} = [REDACTED]$ <p>→ $PEC_{local_sed_total} = [REDACTED]$</p>
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Section A2.10
Annex Point IIA.2.10

**Exposure data in conformity with Annex VIIA to
Council Directive 92/32/EEC (OJ No L, 05.06.1992,
p. 1) amending Council Directive 67/548/EEC**

air

In addition, the active substance is [REDACTED] [127], so there will be no detectable concentration over a long time. In addition, the concentration of lauric acid from the biocidal product in the sediment will be extremely low compared to the high amounts of lauric acid, which comes from the regular human food and from the cleaning processes.

- in the air from the [REDACTED]:
 $PEC_{local,air} = [REDACTED]$
 - in the air from use [REDACTED]:
 $PEC_{local,air} = [REDACTED]$
 - in the air from use [REDACTED]:
 $PEC_{local,air} = [REDACTED]$
- $PEC_{local,air,total} = [REDACTED]$

It has to be considered, that the formulation takes place only in a small and restricted place with closed equipment. Therefore the release to air is very restricted and small. And in the sewage treatment a high dilution and biodegradation will take place. Therefore less than calculated from the formulation process will get into the air.

In addition, the biocidal product is not volatile and it is not used as a preparation for fumigants.

soil

- in the soil from the formulation:
 $PEC_{local,soil} = [REDACTED]$
 - in the soil from use ([REDACTED]):
 $PEC_{local,soil} = [REDACTED]$
- $PEC_{local,soil,total} = [REDACTED]$

It has to be considered, that the formulation takes place only in a small and restricted place. Compared to the $PEC_{local,STP\ water}$ the $PEC_{local,soil}$ from the formulation is not plausible, because the release on the soil is a further dilution step but the calculated $PEC_{local,soil}$ shows a higher concentration than the $PEC_{local,STP\ water}$. Therefore $PEC_{local,soil,total} = PEC_{local,soil}$ from use (body cleaning). In addition, the biocidal product is [REDACTED] in soil [127], so there will be no detectable concentration over a long time.

Conclusion

For the aquatic environment the PEC/PNEC-ratio is calculated for the

- surface water:
With the assessment factor [REDACTED] and from the algae study [151] $NOE_rC_{(24\ h)} = [REDACTED]$
→ $PNEC = [REDACTED]$
→ $PEC/PNEC = [REDACTED] < 1$
- sewage treatment:
With the assessment factor (table 17) [REDACTED] from the respiration inhibition test [147] $EC50 [REDACTED]$
→ $PNEC = [REDACTED]$
→ $PEC/PNEC = [REDACTED] < 1$
- sediment:
According to equation no. 70
→ $PNEC_{sed} = [REDACTED]$
→ $PEC/PNEC = [REDACTED] < 1$
- soil:
According to equation no. 72
→ $PNEC_{sed} = [REDACTED]$
→ $PEC/PNEC = [REDACTED]$

Section A2.10
Annex Point IIA.2.10

**Exposure data in conformity with Annex VIIA to
Council Directive 92/32/EEC (OJ No L, 05.06.1992,
p. 1) amending Council Directive 67/548/EEC**

$$= \blacksquare < 1$$

This PEC/PNEC-ratios show that there is no risk for the environment by the manufacturing and using the biocidal product. According to the proposed life-cycle of the biocidal product, further calculations of the PEC/PNEC-ratio are not necessary.

Evaluation by Competent Authorities	
	Use separate "evaluation boxes" to provide transparency as to the comments and views submitted
	EVALUATION BY RAPPORTEUR MEMBER STATE
Date	<i>Give date of action</i>
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Remarks	
	COMMENTS FROM ...
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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	

Sample table:

Table A2.10: Workplace exposure (biocidal product)

Exposure scenario	Workplace operation	PPE	Year(s) of measurement	Number of measurements	Type of measurements	Exposure concentration
Production	Filling, weighing, mixing	Gloves, clothes, mask, hair cap	No data available*.	No data available*.	personal, closed machine	No data available*.
Formulation	Cleaning	Gloves, clothes, mask, hair cap	No data available*.	No data available*.	personal	No data available*.
Application biocidal product (repellent)	Creaming	No personal protection equipment is necessary.	No data available*.	No data available*.	personal	No data available*.

*No data are necessary, because the biocidal product is easily biodegradable and not harmful to human and nature.

Section A3 Physical and Chemical Properties of Active Substance

Subsection (Annex Point)	Method	Purity/ Specification	Results	Remarks/ Justification	GLP (Y/N)	Reliability	Reference	Official use only
3.1 Melting point, boiling point, relative density (IIA3.1)								
3.1.1 Melting point Melting pt.	Not stated	<u>Purity:</u> ████████	result: 44 °C [96] pressure: no data available.	-	N	2	Product specification from Gustav Heess [1], Gerhartz W. in Ullmann's Encyclopedia of Industrial Chemistry Vol. 10, 5th ed. (1985) 245-276 [96]	
3.1.2 Boiling point Boiling pt.	Not stated	<u>Purity:</u> ████████	result: 298°C [96] pressure: 101.3 kPa	-	N	2	Safety data sheet from Gustav Heess [2], Gerhartz W. in Ullmann's Encyclopedia of Industrial Chemistry Vol. 10, 5th ed. (1985) 245-276 [96]	
3.1.3 Bulk density/ relative density Bulk/rel. density	Not stated	<u>Purity:</u> ████████	result: d_4^{20} : 0.883 [95]	-	N	2	List of Pharmaceutical Substances,	

Section A3 Physical and Chemical Properties of Active Substance

Subsection (Annex Point)	Method	Purity/ Specification	Results	Remarks/ Justification	GLP (Y/N)	Reliability	Reference	Official use only
							14 th edition, Prepared and published by ABDATA, Eschborn/ Taurus [3], Bagby MO, in Kirk- Othmer Encyclopedia of Chemical Technology, Vol. 5 (1993) [95]	
3.2 Vapour pressure (IIA3.2)								
Vapour pressure 1	92/69/EEC A.4: Effusion method (Vapour pressure balance), OECD Guideline 104	<u>Purity:</u> ██████ (w/w) lauric acid, batch no. 43256	at 25°C: ██████	The pressure was determined in the range between 20°C and 60°C. Above 23°C, a vapour pressure could be measured.	Y	1	Möller, M. Laurinsäure Vapour Pressure A.4, ReportNo. 20070088.01 [139]	
Vapour pressure 2	Baccanari DP et al, The measurement of the vapour pressure, J Phys Chem, 72, 6, 2243-2245, 1968. <i>C14 labelled lauric acid is used as test substance.</i>	<u>Purity:</u> not stated	result: $2.320 \cdot 10^{-3}$ Pa at 25°C	Vapour pressure of Lauric acid at 25°C is lower than atmospheric pressure. Consequently, evaporation of Lauric acid is extremely low at that temperature.	-	2	Determ Database (see annex 3)	

Section A3 Physical and Chemical Properties of Active Substance

Subsection (Annex Point)	Method	Purity/ Specification	Results	Remarks/ Justification	GLP (Y/N)	Reliability	Reference	Official use only
3.2.1 Henry's Law Constant (Pt. I-A3.2)	Meylan WM, Howard PH, Bond contribution method for estimating Henry's Law Constants, Environ Toxicol Chem 10 : 1283-1893, published [5]	<u>Purity</u> : not stated	calculated: result: 9.31·10 ⁻⁶ atm·m ³ /mole at 25°C [6]; calculated from the vapour pressure 1 and the water solubility 1 at 25°C: <u>at pH 3:</u> 0.079 Pa·m ³ /mol <u>at pH 5:</u> 0.041 Pa·m ³ /mol <u>at pH 7:</u> 0.014 Pa·m ³ /mol	It is an estimated value from literature, no test is necessary, because the Henry's law constant is not important for the properties of the biocidal product.	-	2	Record Lauric acid, U.S. National Library of Medicine, Specialized Information System, ChemIDplus [6]	
3.3 Appearance (IIA3.3)								
3.3.1 Physical state	visual assessment	<u>Purity</u> : █████ Lauric acid, Batch no. 37077	result : █████	GLP is not necessary for the test.	N	1	Testing procedure PA052900 [7], Annex 12	
3.3.2 Colour	visual assessment	<u>Purity</u> : █████ Lauric acid, Batch no. 37077	result : █████	GLP is not necessary for the test.	N	1	Testing procedure PA052900 [7], Annex 12	
3.3.3 Odour	olfactory assessment	<u>Purity</u> : █████ Lauric acid, Batch no. 37077	result : █████	GLP is not necessary for the test.	N	1	Testing procedure PA052900 [7], Annex 12	
3.4 Absorption spectra (IIA3.4)								
UV/VIS	Method: Ph. Eur. 5.0, 2.2.25 Absorption Spectrophotometry, Ultraviolet and Visibel	<u>Purity</u> : █████ Lauric acid, Batch no. 37077	Batch 37077: See annex 1 and 2: the maximum absorption is at about	-	-	1	Council of Europe [137], Quality Control Dr.	

Section A3 Physical and Chemical Properties of Active Substance

Subsection (Annex Point)	Method	Purity/ Specification	Results	Remarks/ Justification	GLP (Y/N)	Reliability	Reference	Official use only
NMR 1	<p><u>¹H-NMR (300 MHz, DMSO-d₆, TMS)</u> Sample Preparation: solved in [REDACTED] containing [REDACTED] as reference standard Temperature: [REDACTED] Frequency: [REDACTED] Relaxation delay: [REDACTED] Number of scans: [REDACTED] Equipment: [REDACTED]</p> <p><u>¹³C-NMR (75.47 MHz, DMSO-d₆, TMS)</u> Sample Preparation: solved in [REDACTED]₆ containing [REDACTED] as reference standard Temperature: [REDACTED] Frequency: [REDACTED] Relaxation delay: [REDACTED] Number of scans: [REDACTED] Equipment: [REDACTED]</p>	Purity: [REDACTED] lauric acid, Batch no. 43256	<p>See Literature Reference 141 Roos M.</p> <p>¹H-NMR: δ = [REDACTED] [REDACTED] [REDACTED]</p> <p>¹³C-NMR: δ = [REDACTED] [REDACTED] [REDACTED]</p>	-	Y	1	Roos, M. Characterization of the Molecular Structure of Lauric acid, Report No. B 002/2007 [141]	
NMR 2	Solvent: Chloroform-D Apparat: Brücker AC 200 Frequency: 50 MHz Evaluation: shifts as units relative to tetramethylsilane as internal standard.	Not applicable, because identity and purity are detected by GC.	See annex 5 (Not tested at batch 37077): Major chemical shifts at: 180 ppm, 34 ppm	-	-	2	Dimas DA et al [93]	

Section A3 Physical and Chemical Properties of Active Substance

Subsection (Annex Point)	Method	Purity/ Specification	Results	Remarks/ Justification	GLP (Y/N)	Reliability	Reference	Official use only
Water solubility 2	Conductometric Titration with Ba(OH) ₂ [98], [99]	<u>Purity</u> : not stated	result : 5.5 mg/ 100 g water temperature : 20 °C pH : -	Carbon dioxide was taken into account in the method of analysis [102].	-	1	Lide DR (ed.) [94], Bagby MO [95], Brockmann R et al [96], Fasman GD [97], Ralston AW, Hoerr CW [98], Ralston AW et al [99], Singleton WS [100]	
Water solubility 3	Film balance: measuring of the π -A curve [101] Conductivity, Grinnell Jones-Dyke type of bridge supplied by Leeds and Northrup [102]	<u>Purity</u> : not stated	result : 0.42 mg/100 ml water at 25°C [101] 0.48 mg/100 ml water at 25°C [102] temperature : 25°C (and 50°C [102]) pH : 5.7 [101]	The disagreement between the data of Lide DR/Bagby MO/Brockmann R/Fasman GD/ Ralston and Robb/John is possibly due to the different amounts of ionized species present [101].	-	1	Robb ID [101] John LM et al [102]	
3.6 Dissociation constant (-)	Serjeant EP, Dempsey B, Ionization Constants of Organic Acids in Aqueous Solution, Pergamon, Oxford, 1979, published [8, 149]: Measurement of pH changes during titration of Na-salt below c.m.c	<u>Purity</u> : not stated	5.3 at 20°C	An experimental value from literature is sufficient and adequate.	-	2	U.S. National Library of Medicine, Specialized Information System, ChemIDplus [6], Nyren V, Back E [149]	

Section A3 Physical and Chemical Properties of Active Substance

Subsection (Annex Point)	Method	Purity/ Specification	Results	Remarks/ Justification	GLP (Y/N)	Reliability	Reference	Official use only
3.7 Solubility in organic solvents, including the effect of temperature on solubility (IIIA3.1)	Inspection of literature	<u>Purity</u> : not stated	result : soluble in ethanol and propanol, very soluble in benzene and ether.	No test is necessary because the solubility in organic solvents is not important for the intended use.	-	1	List of Pharmaceutical Substances, 14 th edition, Prepared and published by ABDATA, Eschborn/ Taunus [3]	
3.8 Stability in organic solvents used in b.p. and identity of relevant breakdown products (IIIA3.2)	M1000001 (appearance) M1000034 (odour)	<u>Purity</u> : [REDACTED] lauric acid <u>Specification</u> : [REDACTED] [REDACTED]	result (Batch 37077) : [REDACTED] [REDACTED]	[REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED] [REDACTED]	N	1	Testing procedure PA701550, Stability Data [91]	

