LEMIKOS
Beratung für Lebensmittel- und Kosmetikrecht.

Safety assessment

For the finished product

Cosmetic Glitter Glue, Hautkleber für Glitzer

Based on Annex 1 of the Regulation (EC) No. 1223/2009

Created on 21.09.2021

for

Little Star Events GmbH
Michael Jakobi
Ginnheimer Landstr. 167
60431 Frankfurt

LEMIKOS GmbH
Am Rottland 14
51588 Nümbrecht
Tel: +49 (0)2293/ 939 85 13
Email: info@lemikos.de

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A. Safety information of the cosmetic product

A.0.1. Legal classification

This product is a mixture of acrylates and other additives. The product is used as glue. It is a cosmetic product within the meaning of Article 2 (1) a of Regulation (EC) No. 1223/2009. Cosmetic products are therefore products that are intended to come into contact with the external parts of the human body (epidermis, hair system, nails, lips and external genital organs) or with the teeth and the mucous membranes of the oral cavity, specifically for the sole or mainly purpose to cleaning them, perfuming them, changing their appearance, protecting them, keeping them in good condition or correcting body odours.
The evaluation is made on the assumption that it is a cosmetic product and in accordance with VO 1223/2009.

A.1. Qualitative and quantitative formula of the product

Recipe No.: LP-1

A.1.1. Production recipe

Trade name	INCI-name	Supplier or manufacturer	Content (%)
[redacted]	CI 75470	[redacted]	[redacted]
[redacted]	Acrylates Copolymer	[redacted]	[redacted]
[redacted]	Aqua	[redacted]	[redacted]
[redacted]	Xanthan Gum	[redacted]	[redacted]
[redacted]	Carbomer	[redacted]	[redacted]
[redacted]	Phenoxyethanol, Ethylhexylglycerin	[redacted]	[redacted]
Sum:			[redacted]

A.1.2. Quantitative recipe

INCI-name	Function	CAS No.	Content (%)
Acrylates Copolymer	Binding	25133-97-5 / 25035-69-2 / 25212-88-8	[redacted]
Aqua	Solvent	7732-18-5	[redacted]
Phenoxyethanol	Preservative	122-99-6	[redacted]
CI 75470	Cosmetic Colorant	1390-65-4	[redacted]

Carbomer	Emulsion Stabilising	9007-20-9 / 9003-01-4 / 76050-42-5 / 9062-04-8 / 9007-16-3 / 9007-17-4	[redacted]
Xanthan Gum	Emulsifying	11138-66-2	[redacted]
Ethylhexylglycerin	Skin Conditioning	70445-33-9	[redacted]
Sum:			[redacted]

This product is a Leave-on-product.

A.1.3. Qualitative recipe

Ingredients:

Acrylates Copolymer, Aqua, **Phenoxyethanol, CI 75470, Carbomer, Xanthan Gum, Ethylhexylglycerin.**

Note: Ingredients in **bold** are less than 1%

A.2. Physical /chemical properties of the raw materials

A.2.1. Physical / chemical properties of the raw materials

The physical-chemical properties of the raw materials are documented in the Product Information File. According to Article 11 of the Regulation (EC) No. 1223/2009 the Product Information File must be created separately. It contains all the data on raw materials, production method, proofs of effectiveness, etc. The Product Information File has to be stored for 10 years after the last production batch has been put on the market. Toxicological and safety-related data see section A.7.

A.2.2. Physical / chemical properties of the finished product

Consistency: dispersion
Odour: typical
Colour: pink
Viscosity:
Density: approx. 1.0 g/cm^3
pH-value: 5-6
Miscellaneous: -

A.2.3. Stability and shelf-life of the finished product

The product is subjected to a stability test and/or storage test and/or durability test by the manufacturer. In doing so the usual storage conditions and external influences such as temperature, light and product aging have been considered. The product is stable in its current composition. Based on the stability test and experience, the product has a shelf life of 24 months. (See Product Information File)

A.3. Microbiological quality and stability

A.3.1. Microbiological quality

The following microbiological testing is available for this product:

Parameter	Microbiological profile	Reference value according to SCCS
total aerobic germs	< 10 CFU/g	< 1000 CFU/g
yeast/moulds	< 10 CFU/g	< 1000 CFU/g
Pathogens	n.d.	n.d.

A.3.2. Microbiological stability

A germ-contamination test (06/29/2018) has been carried out. The testing was based on the European Pharmacopoeia in its current version respectively the requirements of the SCCS (Scientific Committee on Consumer Safety). The product was inoculated with Staphylococcus aureus, Pseudomonas aeruginosa, Escherichia Coli, Proteus mirabilis, Pluralibacter gergoviae, Candida albicans, Penicillium expansum, Trichoderma viride and Aspergillus brasiliensis. As a result, it was found that the product meets the adequate preservation, A criterion for topical use, according to the European Pharmacopoeia. According to the requirements of the SCCS the number of germs has to be less than 1000 CFU/g. This requirement has also been met.

A.4. Impurities, traces, information about the packaging material

A.4.1. Impurities

See point A.7. and Product Information File. Impurities are undesirable substances. They can be found in raw materials due to contamination or inadequate cleaning. This product contains

no impurities which affect the safety and quality or the shelf-life of the finished product.

A.4.2. Traces

Traces include undesirable substances, which can be found by contamination of the raw materials or by interactions between the ingredients in the finished product. (See Item A.7. and see Product Information File.) Traces are impurities in the ppm range (parts per million, millionth) or ppb (parts per billion, billionth). In particular, traces of heavy metals, solvents and pesticides residues have to be examined. This product does not contain traces of impurities that affect the safety and quality of the finished product or affect the shelf life.

A.4.3. Information about the packaging material

Packaging material: The packaging (primary packaging) is a 15ml bottle of glass. The present packaging information and specifications lead to the conclusion that no migration of undesirable components from the packaging in the product takes place or that the product can be changed by the packaging or that the safety of the product is impaired. In particular, traces of heavy metals, solvents and pesticides residues are considered. The packaging is in accordance with the legal provisions of the Commodities Regulation and Regulation (EC) 1935/2004 or/ and VO(EG) Nr. 2023/2006 and/or VO(EG) Nr. 10/2011 in its current version. (See product information file) The packaging material is suitable for the cosmetic product.

A.5. Normal and reasonably foreseeable use

The product is used as Glue. The product is used by adults only.

Exposure to the cosmetic product

Basic information

Sites of use: parts of body

Amount of product applied: 0.8g (Estimation)

Duration and frequency of use: up to 1x/day

Normal and reasonably foreseeable exposure route: dermal

Target group or group exposed: adults

A.5.1. Estimation regarding absorption through the skin

Chemical substances are absorbed differently though the structure of the skin (stratum corneum, stratum granulosum, stratum spinosum, basal membrane, dermis). The absorption can be considered as a multistage process:

1. The substance must be absorbed on the surface of the stratum corneum.

2 .The materials must perfuse through the stratum corneum dependent on molecular size and solubility

3. They must reach the epidermis.

4. The molecules must pass through the epidermis and into the dermis, where they reach other tissues in the body via the blood circulation.

For the diffusion of these substances the physical laws of diffusion (Fick's law) are essentially. That means that a substance is absorbed depending on molecular size and molecular structure, solubility, time and thickness of the skin structure. (see Lehrbuch der Toxikologie, H. Marquardt and S.G. Schäfer, Spectrum Publishing). The absorption is estimated by the SCCS and by general toxicological assumptions and is given in the following table.

Flux (J_{max}- µg/cm²/hour)	**Molecular Weight in g/mol**	**Log Pow**	**Max. Absorption in %**
negligible	>600	<-1 or >5	negligible
<0,1	>300	<-1 or >5	< 10
0,1-1,0	200-300	2,0-2,5	< 10
1,0-10,0	150-250	1,0-2,0	< 20
10,0-100,0	60-200	0,5-3,0	< 40
>100	<150	0,5-1,5	<80

(Source: Training materials DGK/IKW-training for safety assessors from 23.to 24.09.2009)

Exceptions are:

Perfume oils 100% (worst case)
Preservatives: 100% (worst case)

A.5.2. Exposure to the substances (basis of calculation)

Abbreviations used in the formular	**Explanation**	**Numerical value**	**Unit**	**Literature source/Information**
A	The amount applied in g / day is calculated according to	0.8	g/day	SCCS/ Estimation

	specifications of Annex I, Part A.6 of Regulation (EC) No 1223/2009 of the European Parliament and of the SCCS Notes of Guidance for the Testing of Cosmetic Substances and Their Safety Evaluation			
F	Application frequency	Up to 1x	/day	SCCS/ Estimation
C	Percentage concentration of the toxicologically relevant material in the final product			recipe
BW	Standard body weight adults	60	kg	SCCS
R	Retention factor; percentage of the product that is (so long) in contact to the skin that penetration can take place. The retention factor shall consist of dilution factors and distribution factors.	1.0	-	SCCS
DA	Leave-on-Coefficient	variable	-	Worst case estimation. See A.7.
TD (NOAEL)	Toxicological data, e.g. NOAEL Should no data regarding subacute / subchronic toxity are available, such an assessment will be conducted by TTC concept used or other data.	See A.7.	mg/kg	See A.7.
SED	Systemic exposure dose	See A.7.	mg/kg	calculated
MoS	Margin of Safety	See A.7.	Without unit	calculated

A.5.3. Calculation of the daily dose of the ingredient

Daily dose = A x C x R

For this safety assessment a value of A = 0.8 g is considered according to (SCCS, customer info, other source)

A.5.4. Calculation of the systemic exposure dose of the ingredient

SED = A / Standard body weight (mg/kg bw/day) x C (%)/ 100 x DA (%)/ 100

The calculation is carried out in point A.7.

A.5.5. Calculation of the Margin of Safety of the ingredient

MoS = TD/ SED

The Margin of Safety is the ratio of the highest amount still tolerated without adverse effects (NOAEL, no observed adverse effect level in mg / kg body weight) to Systemic Exposure Dose / SED of this substance. In case this data is not available other literature sources have to be taken into consideration.

The calculation of the MoS per ingredient is in Point A.7. (Safe in case MoS>100)

A.6. Physical / chemical and microbiological properties and toxicological profiles of the ingredients

All known security-relevant data are listed. More data regarding the raw materials used are provided in the PIF (Product Information File) of company Little Star Events GmbH.

A.6.1. Acrylates Copolymer

Acrylates Copolymer [redacted]

Molecular formula	(C5H8O2.C5H8O2.C4H6O2)x
Molecular weight	>10 000 g/mol
Physical state(20 °C)	liquid
Odour	characteristic
Colour	white
Density	1.05 g/cm3
Solubility in water	insoluble

Mutagenity	not mutagenic
Eye irritation	not irritating
Skin irritation	not irritating
Allergisation	not sensitizing
NOAEL	227 mg/kg/day
CIR	Safe as used in cosmetics
Cancerogenity	not carcinogenic
Miscellaneous	Safe, due to the high molecular mass and the molecular structure, dermal absorption is not possible NOAEL (CIR): 227 mg/kg/day

A.6.2. Aqua

Aqua ([redacted])

Molecular formula	H2O
Molecular weight	18.02 g/mol
EINECS number	231-791-2
Physical state(20 °C)	liquid
Odour	scentless
Colour	colourless
Density	1.0
Melting point	0°C
Boiling point	100 °C
Solubility in water	soluble
Mutagenity	not mutagenic
Eye irritation	not irritating
Skin irritation	not irritating
Allergisation	not sensitizing
Information on the purity	tested
Cancerogenity	not carcinogenic
Miscellaneous	Safe, used as food

A.6.3. Phenoxyethanol

Phenoxyethanol [redacted]

IUPAC	Ethylenglykolmonophenylether
Molecular formula	C8H10O2
Molecular weight	138.16 g/mol
EINECS number	204-589-7
Physical state(20 °C)	liquid
Odour	slightly aromatic
Colour	colourless
Density	1.11g/cm3
Melting point	14 °C
Boiling point	242 °C
Solubility in water	insoluble
Mutagenity	not mutagenic, not carcinogenic
LD-50 (rat, oral)	1260 mg/kg
LD- 50 (rabbit, dermal)	5510 mg/kg
Eye irritation	slightly irritating
Skin irritation	slightly irritating
Allergisation	not sensitizing
VO 1223/2009	Approved according Annex V No. 29 of Regulation 1223/ 2009 up to 1%

A.6.4. CI 75470

CI 75470 [redacted]

Molecular formula	C22H20O13
Molecular weight	492.39 g/mol
EINECS number	215-724-4
Physical state(20 °C)	solid
Odour	scentless
Colour	red
Density	1.869 g/cm3
Melting point	136 °C
Solubility in water	insoluble
Mutagenity	not mutagenic, not carcinogenic
Eye irritation	slightly irritating
Skin irritation	slightly irritating
Allergisation	not sensitizing
VO 1223/2009	approved according annex IV of regulation 1223/2009 no.115
Information on the purity	fullfilled with guideline 95/45/EG

A.6.5. Carbomer

Carbomer [redacted]

Molecular formula	C3H4O2
Molecular weight	72.06 g/mol
EINECS number	- / - / - / - / - / -
Physical state(20 °C)	Solid
Odour	sour
Colour	white
Density	1.4 g/cm3
Solubility in water	soluble
Mutagenity	not mutagenic
LD-50 (rat, oral)	>10 000 mg/kg
LD- 50 (rabbit, dermal)	>5 000 mg/kg
Eye irritation	not irritating
Skin irritation	not irritating
Allergisation	not sensitizing
NOAEL	1000 mg/kg/day
CIR	Safe, as used in cosmetics
Cancerogenity	not carcinogenic

A.6.6. Xanthan Gum

Xanthan Gum [redacted]

Molecular formula	C35H49O29
Molecular weight	933.75 g/mol
EINECS number	234-394-2
Physical state(20 °C)	solid
Odour	scentless
Colour	beige
Solubility in water	soluble
Mutagenity	not mutagenic
LD-50 (rat, oral)	>5 000 mg/kg
Eye irritation	not irritating
Skin irritation	not irritating
Allergisation	not sensitizing
NOAEL	1000 mg/kg/day
CIR	Safe as used in cosmetics
Cancerogenity	not carcinogenic

Miscellaneous	Safe, according literature (https://efsa.onlinelibrary.wiley.com/doi/full/10.2903/j.efsa.2017.4909)

A.6.7. Ethylhexylglycerin

Ethylhexylglycerin [redacted]

Molecular formula	C11H24O3
Molecular weight	204.30 g/mol
EINECS number	408-080-2
Physical state(20 °C)	liquid
Odour	light
Colour	colourless
Density	0.95 g/cm3
Melting point	<-76 °C
Boiling point	149 °C
Solubility in water	soluble
Mutagenity	not mutagenic, not carcinogenic
LD-50 (rat, oral)	>2 000 mg/kg
LD- 50 (rabbit, dermal)	>2 000 mg/kg
Eye irritation	slightly irritating
Skin irritation	slightly irritating
Allergisation	not sensitizing
NOAEL	800 mg/kg/day
Miscellaneous	Safe, according to supplier

All ingredients have been subjected to safety assessment. The purity specifications which are required by Regulation (EC) No. 1223/2009 on cosmetic products, in particular residues of solvents, heavy metals or pesticides are met in the raw materials used. The Certificates of Analysis and/or specifications and all other documents provided were checked and classified. None of the raw materials has residues which have a negative influence on the cosmetic product regarding the system toxic effects on humans or which affect the stability and durability of the product. The above raw materials were rated as safe for use in this product according to Regulation (EC) No 1223/2009 in the currently valid version.

A.7. Calculation of the systemic exposure dose (SED) and the Margin of Safety (MoS)

A.7.1. Calculation of the dermal systemic exposure dose and the margin of Safety

INCI	Content (%)	DA (%-Estimation from point A.5.2)	SED in mg/kg (body weight)/day	TD (NOAEL or others	MoS (or reason for decision)
Acrylates Copolymer	[redacted]	1	0.0800000	227 mg/kg/day	CIR: Safe as used in cosmetics
Aqua	[redacted]	100	5.1360000	-	Safe, Water quality is safe and proved
Phenoxyethanol	[redacted]	100	0.1080000	1260 mg/kg	Approved according Annex V No. 29 of Regulation 1223/ 2009 up to 1%
CI 75470	[redacted]	10	0.0026667		approved according annex IV of regulation 1223/2009 no.115
Carbomer	[redacted]	1	0.0002533	1000 mg/kg/day	CIR: Safe, as used in cosmetics
Xanthan Gum	[redacted]	50	0.0126667	1000 mg/kg/day	CIR: Safe as used in cosmetics
Ethylhexylglycerin	[redacted]	50	0.0060000	800 mg/kg/day	133333>100, Safe

A.8. Undesirable effects and serious undesirable effects (Cosmetovigilance)

This recipe is on the market for years. Data on undesirable effects and serious undesirable side effects have so far not been associated with the recipe. It is expected that this will continue to be the case.

A.9. Information on the cosmetic product

A.9.1. Data on acute toxicity, inhalation toxicity and sensitization

Acute oral and dermal toxicity: All ingredients used in this product show a value of> 2000 mg / kg regarding LD50 (rat, oral) and LD50 (rabbit, dermal).
The ingredients for which no data are available are either regulated by CIR (Cosmetic Ingredient Review), the SCCS (Scientific Committee of Consumer Safety), the Regulation (EC) No. 1223/2009 or could be classified as acutely toxic harmless by other sources. Therefore an acute toxic hazard for the consumer should be expected neither from the pure raw materials nor from the finished mixture in the present cosmetic product under reasonable, foreseeable use.

Inhalation toxicity: Intake by inhalation of Cosmetic Glitter Glue, Hautkleber für Glitzer is not expected neither by normal nor by foreseeable use. An assessment of inhalation toxicity can be omitted.

Allergisation:
Contact allergies can generally occur as unwanted effects in every contact with a chemical substance of natural or synthetic origin. In the present state of science and on the basis of the data available for the ingredients no or only a very mild and short-term effect is expected in case of a contact with the potential allergens (such as the perfume oil constituents) in this product. The perfume oil is IFRA certified resp. rated and thus safe in the present use. In addition, arising from the composition of the product, there is no justifiable evidence that there is a risk of sensitizing effects due to the regular use of this product. The INCI indication showing all ingredients on the packaging allows the consumer/user to identify known allergens and to avoid the product if necessary. An adequate risk minimization is achieved by regular analysis of the Cosmetovigilance data.

A.9.2. Patchtest

The product Cosmetic Glitter Glue, Hautkleber für Glitzer of company Little Star Events GmbH was subject to a patch test (04/12/2018). For that purpose 50 subjects were selected with age between 18-71 years, of different sexes and with different skin sensitivity. The product was applied in a standardized method using square plastic chambers under occlusion for 48h/72h. The dermatological testing on humans available was conducted in accordance with GLP guidelines and the relevant recommendations of the Working Group Colipa (AP Walker et. al.Test Guidelines for Assessment of Skin Compatibility of Cosmetic Finished Products in Man). Because of the test result and the selected test conditions, the product is classified as safe regarding a possible irritant effect on the skin.

A.9.3. Nanomaterials and CMR-substances

This product contains no nanomaterials and CMR substances according to Article 15 and Article 16 of Regulation (EC) No. 1223/2009.

B. Safety assessment of the cosmetic product

B.1. Conclusion from the safety assessment

The cosmetic product Cosmetic Glitter Glue, Hautkleber für Glitzer of company Little Star Events GmbH is classified as

SAFE

for human health under normal and reasonably foreseeable use according to regulation 1223/2009 (EC).

B.2. Warnings and instructions for use

The product contains ingredients that require special conditions of use or warnings on the label. The warning notices must be attached and checked accordingly! The following proposal is made: Keep out of the reach of children. Do not get in eyes. Can irritate the eyes.

B.3. Justifications

B.3.1. Composition of the finished product

According to the information provided under point A.1. the product correspondents in its composition to the guidelines of the cosmetics Regulation EC 1223/2009.

B.3.2. Microbiological quality and stability of the finished product

The microbiological quality of this product complies with the requirement of the SCCS Notes of Guidance, 9th/10th Revision because of the tests carried out and is therefore been classified as safe. Because of the storage experiments conducted, and the physical / chemical tests carried out, as well as the passed germ-contamination test, he product is considered to be sufficiently stable and a shelf life of 24 months is considered to be justified.

B.3.3. Packaging information

According to the information and documents of the respective manufacturers listed in A.4, the primary packaging complies with the relevant requirements and recommendations and is thus suitable as packaging for the cosmetic product.

B.3.4. Normal and reasonably foreseeable use

The normal and reasonably foreseeable use of this product as glue is clearly identified in the product description, labelling and presentation.

B.3.5. Raw materials, impurities, traces, toxicological profile

All raw materials used in this product comply with the Cosmetics Regulation regarding its purity. The use in the specified amounts complies with the Cosmetics Regulation. The testing of raw materials showed that all limits and recommendations are complied with. The use of certain cosmetic ingredients is regulated in Annexes III to VI of Regulation (EC) No 1223/2009 and its amendments.The formula is thus to be evaluated as safe.

B.3.6. Safety of the individual ingredients

The product contains ingredients which are all considered safe and in full compliance with Regulation EC 1223/2009 and amendments. The product contains no prohibited ingredients listed in Annex II or ingredients used beyond the limits and conditions laid down in Annex III of the EU Cosmetics Regulation. All ingredients are used at concentrations which have been shown to be non-irritating and non-sensitising at concentrations used.

B.3.7. Fragrances, labelling requirements for allergenic components

There is no fragrance oil used. The following allergens have to be indicated: none

B.3.8. Undesirable effects and serious undesirable effects

This recipe is on the market for years. Data on undesirable effects and serious undesirable side effects have so far not been associated with the recipe. It is expected that this will continue to be the case.

B.3.9. Information on the cosmetic product

The product was subjected to a patch test for skin tolerance in humans.

C. Qualification of the safety assessor and approval of part B

C.1. Validity

This safety assessment remains valid as long as no significant qualitative and / or quantitative changes in the recipe and in the application security and the scope of the relevant product are made, or a significant number of consumer complaints is present. Furthermore, this safety assessment remains valid until legal changes and / or new scientific knowledge. The GMP assessment remains unaffected.
Note: Please check in principle your product information on labels, folding box, instruction leaflet etc. on legal compliance, since with this order only a safety assessment for your product was created.

Nümbrecht, 21.09.2021

C.2. Curriculum Vitae of the safety assessor

Name:	Sandra Marion Haßler geb. Freyer
Date of birth:	18.09.1975
Place of birth:	Nümbrecht
Marital status:	married
Professional education:	1996- 2000: Study of Food Chemistry at the "Rheinische Friedrich-Wilhelms-University" in 53012 Bonn
Practical education:	July 1995- December 1995: Company Sarstedt, equipment and disposables for medicine and science in 51588 Nümbrecht-Rommelsdorf January 1996- March 1996: Aggerverband, supplier of drinking water and sanitation in 51645 Gummersbach December 2000 - January 2001: BELKAW, Bergische Licht-, Kraft- und Wasserwerke in 51432 Bergisch Gladbach February 2001 - April 2001: working student Bayer AG in 51368 Leverkusen 2001- 2002: professional practical year as prospective food chemist at the following locations: Eismann und Family GmbH & Co KG in 40822 Mettmann Food Control Officy city of Oberhausen in 46041 Oberhausen Chemistry and Geoscience Institute of the cities Essen and Oberhausen in 45127 Essen
Occupation:	2002- 2013: Food chemist for Hollywood Nails GmbH, An der Hasenjagd 10, 42897 Remscheid Responsible for product development, quality assurance, product labelling, Safety Assessor, Regulatory Affairs, dealing with authorities and associations, health and safety measures, member of the working group Nagelmodelliermittel of the IKW 2010: Freelancer as Cosmetics Legal Advisor, Expert for regulatory affairs and Safety Assessor, member of DGK, member of GdCh
Further education:	various seminars on hygiene, safety assessments of cosmetic products, CPNP, cosmetic law, GMP (Good Manufacturing Practice) and modelling means for artificial nails, Presentations at trade shows around the cosmetics law

C.3. Qualification of the safety assessor

Erlaubnisurkunde

Frau Sandra Marion Freyer

geboren am 18. September 1975 in Bierenbachtal

wird gemäß § 2 Abs. 1 des Gesetzes über die Berufsbezeichnung "Lebensmittelchemiker" vom 7. März 1978 (GV. NRW. S. 88/SGV. NRW. 2125) mit Wirkung vom heutigen Tage die Erlaubnis erteilt, die Berufsbezeichnung

"Lebensmittelchemikerin"

zu führen.

Köln, den 18. September 2002

Bezirksregierung
Im Auftrag
(Möck)

DEUTSCHE GESELLSCHAFT FÜR WISSENSCHAFTLICHE UND ANGEWANDTE KOSMETIK E.V.

Gegr. 1957 DGK

CERTIFICATE

Sandra Haßler

through her qualification according to Article 10, Paragraph 2 of the EC Cosmetics Regulation 1223/2009,

successful completion of the following DGK continuing education courses for safety assessors

Exposure to Cosmetic Products / Percutaneous Penetration
Topical Safety, Immunology and Sensitization
Metabolism, Kinetics and Structure-Activity Relationships
Carcinogenesis and Mutagenesis
General and Systemic Toxicology
Reproduction Toxicology
Microbiological Safety of Cosmetic Products

and her participation over the last five years in at least three DGK seminars for safety assessors or relevant further trainings

is certified as fulfilling the requirements of a

DGK SAFETY ASSESSOR

Hamburg / Kaiserslautern, 01st November 2017

Dr. H. Schmidt-Lewerkühne
President of the German Society for Scientific and Applied Cosmetics (DGK e. V.)

Prof. Dr. G. Eisenbrand
Chairman of the Committee on Continuing Education for Safety Assessors

This certificate is valid for 5 years.

Präsident: Dr. Hartmut Schmidt-Lewerkühne
Schatzmeister: Dr. Sven Munke

Schriftführer: Dr. Volker Wendel
Fortbildung: Andrea Weber

Fachgruppen:
Britta Klebon

UNIVERSITÄT BONN
Rheinische Friedrich-Wilhelms-Universität Bonn

IEL
Institut für Ernährungs- und Lebensmittelwissenschaften IEL

Prof. Dr. Matthias Wüst — Bioanalytik/Lebensmittelchemie

IEL – Bioanalytik/Lebensmittelchemie, Endenicher Allee 11-13, 53115 Bonn

To whom it may concern

Endenicher Allee 19 b
53115 Bonn
Tel.: 0228/73-2351
Fax: 0228/73-3499
matthias.wuest@uni-bonn.de
www.lebensmittelchemie.uni-bonn.de

Bonn, 2019-03-22

This letter is to confirm that Mrs. **Sandra Haßler (maiden name Freyer)**, born September 18th 1975, has passed the first state examination in food chemistry at the University of Bonn in 2000. At this time neither diploma supplements nor transcripts in English language were awarded to the candidates. However, the grade "first state examination" is comparable to a M.Sc. degree and encompasses a course of study of 8 semesters with a workload of approximately 240 credit points according to the European Credit Transfer and Accumulation System (ECTS). The curriculum contains lectures and laboratory courses in organic, inorganic, physical, and analytical chemistry and food sciences.

Prof. Dr. Matthias Wüst
(Head of the examination office)

Prof. Dr. Matthias Wüst
Universität Bonn, IEL-Bioanalytik
matthias.wuest@uni-bonn.de
Tel.: 0228/ 73 - 23 61; Fax: - 3499
Endenicher Allee 11-13; 53115 Bonn

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