Registration of New Cosmetic Ingredient with SFDA in China





Enabling Chemical Compliance for A Safer World

18 April 2012, Yunbo Shi, CIRS China

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Definitions

"A new cosmetic ingredient is any natural or artificial ingredient that is used in cosmetics in China for the first time!"

3 Criteria for A Used Cosmetic Ingredient

- ✓ Listed on the Inventory of Existing Cosmetic Ingredients in China (IECIC 2003 or IECIC 2011) and is not a banned substance; or
- ✓ Has been used in a licensed special use cosmetic product(proof required); or
- ✓ Part of a plant that has been approved as cosmetic ingredient.

INCI 2007: 12,000 ingredients??



Legal Framework and Guidelines

- Hygiene supervision over cosmetics (1990)
 - ✓ The use of new ingredient for cosmetics production must be approved first;
- Rules for the application of administrative licenses for cosmetics (2009)
 - ✓ The use of new ingredient in cosmetics in China must be licensed;
 - ✓ Applicant can be the manufacturer of the new ingredient or the manufacturer of cosmetics;
 - ✓ Detailed requirements for registration of new cosmetic ingredient;



Legal Framework and Guidelines

- Guidelines for the registration and evaluation of new cosmetic ingredient (2011)
 - ✓ Toxicology data requirements and exemptions;
 - ✓ Detailed guidelines for preparing other documents.



关于印发化妆品新原料申报与审评指南的通知

国食药监许[2011]207号

2011年05月12日 发布

各省、自治区、直辖市食品药品监督管理局(药品监督管理局),有关单位:

为加强化妆品新原料行政许可工作,确保化妆品产品质量安全,依据《化妆品卫生监督条例》及其实施细则等有关规定,国家食品药品监督管理局制定了《化妆品新原料申报与审评指南》。现予印发,请遵照执行。

附件: 化妆品新原料申报与审评指南



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Application Form

化妆品新原料行政许可

申请表

New Ingredient Name

户品中文名称_____

国家食品药品监督管理局制

Instructions

填表说明

1. 水市请求可从国家食品药品监督管理局网站上下载使用。

阿址: HTTP: //WWW. SFDA. GOV. CN

- 2. 本来申报内察及所有申报资料均须打印。
- 3. 本来申报内察应完整、清楚、不得涂款。
- 4. 填写此来前,请认真阅读有关法规及申报受罪规定。
- B. 申报时应同时提交与纸质申请未数据一致的电子未格。

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Company and Ingredient Info

Declaration & Signature

保证书

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Declaration & Signature

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Checklist

Research & Development Report – Part 1

- Background
- Why Better? Function & Safety.
- Process
- ➤ How?
- Other Technical Materials
- Very Important;
- Comparison studies
- Literature data, test report

Research & Development Report 研制报告

New Ingredient Name/尿料名称:



Part I R&D Background,Process and Technical Materials。尼科研设的设施,过程及相关的技术变料

R&D Background 研疫背景

Please explain the background for the development of this new ingredient. For example, company A is looking for producing a new ingredient that is better than other existing cosmetic ingredients or a new ingredient that is essential for improving the expected performance of a cosmetic product. 语同单充进新元科的研究分表,比如公司 A 希望研发出一种其他现象化妆品品的证明分别。

R&D Process 研发社想

Please explain the R&D process for this ingredient. For example, how this ingredient is found to be more effective than other ingredients. 结括途下这个新原料的研发过程。例如,如何发现新原料更有效的。

Relevant Technical Materials 相类的技术多数

Please provide other necessary technical materials, for example, comparison study or efficacy study. 帝級共享他的技术 學科、此句可以研究的对象性问述。

Research & Development Report – Part 2

Ingredient Identification

- Trade Name, Chinese Name, IUPAC, INCI Name, Molecular Formula, etc
- Source & Specification
- Detailed Analytical Methods

Physio-chemical Properties

Appearance, color, ordor, solubility,
 Melting point, boiling point, vapor pressure,
 pH, Density, n-Octanol/Water, pKa,
 Refractive index, etc.

Part II ingredient Name, Source, 與Appulas, Weight, Molecular Formula, Molecular Structure and Rossylo, chemical properties.新足科的名称。来歷、相对分子反至、分子式、化学结构、四处性反。

+					
New Ingredient					
Trade Name					
新原料商品名					
IUPAC Name		CA8			
IUPAC 名字		CAS 55			
INCI Name		Chinese Name			
INCI 英文命名	1	标准中文名字			
Source Source	Indicate chemical synthesis, or anin				
表征	注明化学合成,动物报取延录植物报题				
21500	在方ですびかい や世界を一定は世界を				
Molecular Formula	1	Molecular Weight	In case of polymer, please provide		
分子式	1	相对分于量	average molecular weight and		
	1		molecular weight distribution.		
	1		如敦合物。诸提供干均分于量和分子		
			量分布.		
Molecular	Please Insert a picture. 诺姆入分子的	的物质片	•		
Structure 分子结构					
Analytical	Please provide all applicable analyt	tical methods (UV-vis., IR	, NMR, MS, ICP, GPC, GC or HPLC,		
Methods 分析方法	etc) used to identify the molecular structure of the ingredient qualitatively and quantitatively. Both				
	experimental conditions, spectrum and result analysis are required. 倍投供用来担益和定性表征研				
	层科分子机构的有适用的分析方法(UV-vis. IR. NMR, M8, ICP, GPC, GC or HPLC, etc.)。包括试验				
	原体、原音和信息分析。				
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Appearance		Color			
形心(页/液/气)		m/A			
		製色 Malifor palet (IC)			
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Research & Development Report – Part 3

- Intended Function
- Consistent with background info;
- Supporting data required;
- Scope & Extent of Use
- Applicable types of cosmetics;
- Maximum concentration;
- Recommended concentration;
- Wordings of Conditions
- of Use and Warnings
- ☐ Has Been Approved or Used in Other Countries or Pegions?
- in Other Countries or Regions?
- Approval certificate required;
- Product label required;

Part III Intended function of the new ingredient in cosmetics, scope and extent of use in cosmetics and evidence, wordings of conditions of use and warnings. 原料在化妆品中的使用目的、使用范围、基于安全的使用限量和依据、注意基理。 表示语句。

Lip Products 10% Lip Oral	so indicate the
Please indicate the intended types of cosmetic products that the new ingredient will be used. Please all maximum concentration of the ingredient in ready for use preparation. Relevant evidence needs to pro 料可使用于生产何种化妆品。同时端注明该原料在可直接使用配制品中最大的浓度。相关依据也需要提供Example/例子 Type of Cosmetics Max Concentration Site of Application Exposure Route Target Lip Products 10% Lip Oral	vided.祷注明该原
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Type of Cosmetics Max Concentration Site of Application Exposure Route Target Lip Products 10% Lip Oral	
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Body Lotion years	old
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rt IV Please indicate whether the new ingredient has been approved for use in cosmetics in ot	her countries
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art IV Please indicate whether the new ingredient has been approved for use in cosmetics in ot gions. 原料在 国外(丝区)是否使用于化妆品的情况说明等。	her countries o
The state of the s	her countries (

Brief Introduction and Illustration of Production Process

生产工艺简讯及简图

Please indicate the main steps, processes and parameters during the production of the new cosmetic ingredient. To be more specific, please describe the raw materials used, reaction conditions (temperature, pressure, etc.), additives (catalyst, stabilizer, etc.), intermediate product, by-products and key production steps (for example, mixing, reaction, purification, etc.). In case of natural extracts, please indicate the processing methods, extraction method, solvent and possible residue of impurities or solvent in final product. 应说明化妆品新原料生产过程中涉及的主要步骤、流程及参数,如应列出原料、反应条件(温度、压力等)、助剂(催化剂、稳定剂等)、中间产物及副产物和制备步骤等;若为天然提取物,应说明加工、提取方法、提取条件、使用溶剂、可能残留的杂质或溶剂等。

Main steps, raw materials, solvents, additives, chemical reactions, temperature, pressure, purification steps, by products, possible impurities

Please insert a production diagram 请插入简图



Quality and Safety Control of Ingredient

Specification

- Requirement on the content of ingredient and unavoidable impurities;
- Shelf-life, storage conditions, etc.
- Analytical Methods
- Required for both ingredient and Impurities(must be verified);
- Quality and Safety Control
- ➤ How to minimize the content of hazardous and unavoidable impurities known as risk substances.

Quality and Safety Control of Ingredient 原料质里安全控制要求

New Ingredient Name/原料名称:

Product Specification 产品规格

Product specification should include the requirements on the purity or concentration of main ingredient and inevitable impurities (for example, solvents, stabilizers, residue monomers in case of polymers, etc) due to technical reasons. Product specification also includes requirements on some phylo-chemical properties, shelf life and storage conditions. 产品机格应包括纯度或含量、杂质种类及其各自含量(聚合物应说明效图单体及其含量)等质量安全控制指标,由于技术原因在原料中不可提免存在的溶剂、稳定剂、载体等的种类及其各自含量。其他理化参数,保质期及贮存条件等。若为天然植物提取物,应明确其质量安全控制指标。

Quantitative and qualitative analytical method for the ingredient and testing methods for impurities. 检测方法,原料的定性和定量检测方法、杂题的检测方法等。

Possible Risk Substances and Control Measures 可能存在的安全性风险物质及实控制措施

Please Indicate which substances/Impurities might pose risk to human health and what measures could be taken to eliminate or reduce the presence of risk substances. In the new ingredient, 请注明何种杂本可能对人体健衰造成安全性风险以及如何消除或减少风险物质的控制管理措施。

Toxicology Safety Assessment for Ingredient

- Ingredient Characterization, Physio-chemical Properties and Toxicological Profile
- Hazard Identification;
- Dose-response assessment(Determination of NOAEL or LOAEL or VSD);
- Exposure assessment(Estimation of Systematic Exposure Dose(SED));
- Risk characterization(Calculation of MoS or MoE).

Chinese Summaries and Toxicology Studies for Ingredient

- Not all toxicology tests are required;
- Original test reports or certified copies required for toxicology tests conducted in overseas labs;
- Qualifications of overseas labs also required;
- Statement on the consistence between an ingredient and a tested material;

Safety Assessment of Risk Substances

- In most cases, such assessment is only qualitative;
- Not required if there is no risk substance. However, hazard identification must be done for every possible impurity.

Required Toxicology Studies

- acute oral and acute dermal toxicity;
- 2. skin and eye irritation/corrosion;
- 3. skin sensitisation;
- 4. skin phototoxicity and photosensitivity (required if the ingredient is used as UV-filters);
- 5. mutagenicity (should at least include a gene mutation test and a chromosome aberration test);
- 6. sub-chronic oral and dermal toxicity;
- 7. teratogenicity;
- 8. chronic toxicity/carcinogenicity;
- 9. toxicokinetics and dynamics;



Toxicology Study Exemptions

Exemption Criteria	Exempt endpoints
(1)The ingredient is not used as a preservative,	7, 8, 9, sub-chronic oral or dermal toxicity
sun block agent, colorant or hair dye; and	depending on exposure route
(2)The ingredient does not need to be added to	
restricted substances list in hygienic standard of	
cosmetics from the safety point of view.	
(3)The ingredient has met criteria (1)+(2) and the	6,7,8,9
ingredient has been included the inventory of	
existing ingredients in overseas authoritative	
organization for more than 4 years; and	
(4) The ingredient is not found to be hazardous in	
public literature when used.	
(5) The ingredient is proven to have a history of	1,5,6,7,8,9
safe use as food ingredient by government or	
authoritative organizations.	4050700
(6)Polymer with average molecular weight above	1,3,5,6,7,8,9 and photosensitivity
1000 Daltons;	
(7)Risk assessment of the cosmetic ingredient	1,2,3,4,5,6,7,8,9
has been carried out by overseas authoritative	
organizations and the conclusion is that the	
ingredient is safe to be used in cosmetics.	

Alternative to Animal Testing

- ➤ The word "动物替代方法" or "Alternative to Animal Test" is not mentioned in the guideline at all;
- Read-cross, clinical research, QSAR is mentioned in the guideline;
- In vitro method for phototoxicity published recently a big step;
- ➤ It is worth a try to use alternative to animal testing for registration if the alternative method has been validated and accepted by authoritative organizations.



Safety Assessment of Risk Substances

- ➤ Risk substances are the components (impurities or additives) that may cause potential harm to human health resulted from raw materials or brought in during the production process.
- Vital for successful registration;
- No required if there is no risk substance(hazard identification process and proof is required); Simple declaration is not enough;
- Not required if restriction limit has been established in cosmetic regulations in China or by other authoritative organizations;
- Risk assessment process similar to ingredient itself;
- Only abstracts of toxicology studies are required;



Other Documents

- Power of Attorney in case of appointing Chinese responsible agent;
- Contracted manufacturing agreement in case of contracted manufacturing;
- 1 Sample and other documents.
- All documents: 1 original, 4 copies.



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 - ☐ Quality and Safety Control of Ingredient
 - ☐ Toxicology Safety Assessment Data
 - Other Documents
- SFDA Format Check and Technical Review
- Challenges and Trends



SFDA Format Check & Technical Review

- Format Check: 4 5 Days
- Technical Review: 4 5 months
- Possible Conclusions:
 - Safe without restrictions, approved;
 - Safe with restrictions, proper warning and labeling, approved;
 - Unsafe under proposed conditions of use, rejected;
 - Request more data.



Table of Contents

- Legal Framework and Guidelines
- Required Documents
 - ☐ Application Form for Licensing A New Cosmetic Ingredient
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Challenges & Trends

- Only a few new ingredients approved since 2004 (Only 8?)
- 2 new ingredients approved recently(PM-Lysine and Nivitol)

Possible Reasons?

- Lack of guidelines(Now it is available);
- Lack of alternative to animal tests(SFDA is improving this);
- Lack of exposure data(Less urgent);

Lessons Learned?

- 3 batch analysis is necessary before toxicology test starts in China;
- Monomer residue must be tested for polymers(GPC is not enough);
- Analytical methods must be verified in at least 3 labs recognized by SFDA if there is no standard method for a substance or impurity;
- If tests are carried out in overseas labs, only original reports or certified copies are accepted. Qualifications of labs are also required.

