

Cosmetic Product Safety Report

SQT Anti-Aging Rejuvenation Set- SQT Firming Rejuvenation Essence

This safety assessment relates to the formulation described below. If the information below is incorrect, please amend and resubmit for reassessment.

Hunan Sunshine Bio-Tech Co., Ltd
 Building E7, Lugu Yuyuan, No.27, Wenxuan Road,
 High-Tech Development Zone, Changsha, Hunan,
 China, 410000

Formulation Ref: N/A

Buyer/Final Retailer: N/A

Manufacturer: N/A

PRODUCT FORMULATION

The chemical names shown below refer to the raw materials used to formulate this product. The identity of the raw materials is not necessarily based on the International Nomenclature of Cosmetic Ingredients (INCI) and does not represent the INCI listing that must be shown on the product label and is for assessment purposes only. An outline INCI label can be prepared on request.

Chemical Name	Conc	% Max Active	Max Active in Product	CAS No	Einecs No
AQUA (WATER)	61.09	100	61.09	7732-18-5	231-791-2
GLYCERIN	13.7	100	13.7	56-81-5 / 8013-25-0	200-289-5
BUTYLENE GLYCOL	7.675	100	7.675	107-88-0	203-529-7
PROPANEDIOL	5.55	100	5.55	504-63-2	207-997-3
PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN	4	100	4	220144-83-2	
DIPEPTIDE DIAMINO BUTYROYL BENZYLAMIDE DIACETATE	2.5	100	2.5	-	-
PENTYLENE GLYCOL	1.2	100	1.2	5343-92-0	226-285-3
PROPYLENE GLYCOL	0.605	100	.605	57-55-6	200-338-0
GLYCERYL POLYMETHACRYLATE	0.5	100	.5	159339-88-5 / 146126-21-8 / 28474-30-8	POLYMER
LACTOBACILLUS/BEAN SEED EXTRACT/SODIUM GLUTAMATE FERMENT FILTRATE	0.5	100	.5	-	-
CARNOSINE	0.4	100	.4	305-84-0	206-169-9
BACILLUS/SOYBEAN FERMENT EXTRACT	0.3	100	.3	-	-
CAPRYLHYDROXAMIC ACID	0.3	100	.3	7377-03-9	230-936-7
SODIUM HYALURONATE	0.3	100	.3	9067-32-7	-
HYDROLYZED SODIUM HYALURONATE	0.3	100	.3	-	-
1,2-HEXANEDIOL	0.15	100	.15	6920-22-5	230-029-6
AMMONIUM ACRYLOYLDIMETHYLTAURATE/VP COPOLYMER	0.1	100	.1	-	-
BETA-GLUCAN	0.1	100	.1	26874-89-5 / 53238-80-5 / 55965-23-6	258-443-2 / 310-127-6
CENTELLA ASIATICA EXTRACT	0.1	100	.1	84696-21-9	283-640-5
ETHYLHEXYLGLYCERIN	0.1	100	.1	70445-33-9	408-080-2
HYDROLYZED SCLEROTIUM GUM	0.1	100	.1	-	-
XANTHAN GUM	0.1	100	.1	11138-66-2	234-394-2
CARBOMER	0.05	100	.05	54182-57-9 / 9007-20-9 / 9003-01-4 / 76050-42-5 / 9062-04-8 / 9007-16-3 / 9007-17-4	POLYMER
FOLIC ACID	0.05	100	.05	59-30-3	200-419-0
PALMITOYL TETRAPEPTIDE-7	0.05	100	.05	POLYMER	POLYMER
PALMITOYL TRIPEPTIDE-1	0.05	100	.05	147732-56-7	-
POLYSORBATE 20	0.05	100	.05	9005-64-5	500-018-3
CITRIC ACID	0.03	100	.03	77-92-9 / 5949-29-1	201-069-1
SODIUM POLYGLUTAMATE	0.02	100	.02	28829-38-1	POLYMER
DISODIUM PHOSPHATE	0.005	100	.005	7558-79-4 / 7782-85-6 / 10028-24-7	231-448-7
FIBRONECTIN	0.005	100	.005	86088-83-7	289-149-2
METHYLPARABEN	0.005	100	.005	99-76-3	202-785-7
PROPYLPARABEN	0.005	100	.005	94-13-3	202-307-7
PVM/MA COPOLYMER	0.005	100	.005	9011-16-9 / 25153-40-6 / 25246-64-3	POLYMER
SODIUM PHOSPHATE	0.005	100	.005	7558-80-7 / 7632-05-5 / 10049-21-5	231-449-2 / 231-558-5

MSDS/SDS, CoA/TDS and toxicity profile (where applicable) were listed in the Appendix 1

LABELLED WARNINGS & INSTRUCTIONS OF USE



CONSUMER EXPOSURE

Product Class: Face serum

IFRA Product type: Women's Facial Creams / Lotions / Butter / Make-up of all types

IFRA Category: Category 5

Targeted Population: Children 14 years of age 50.4kg (Mean)

Amount per application/g:

Number of applications per day: Twice a day

Skin Surface Area of Application/cm²: 555

Physical form: Liquid

Total Amount applied per day/g: 1.54

Part of body exposed to undiluted product: Hands and face

Estimated Daily Exposure mg/kg/day: 24.14

Amount Per Unit Area of Skin per day mg/cm²/day: 2.70

Retention factor: 1.00

Exposure Time Neat: 720-960 Minutes

Exposure Time Dilute: Not Applicable

Exposure time Solvent Inhalation: Not Applicable

Exposure time Aerosol Inhalation: Not Applicable

MICROBIOLOGICAL QUALITY

To comply with "Guidelines on Microbiological Quality of the Finished Cosmetic Product" under SCCS's Notes of Guidance, the following limits apply to this product:

Category 2: Other cosmetic products. Total Aerobic Mesophilic Microorganisms (Bacteria plus yeast and mould) should not exceed 1000 cfu/g or ml in the product. *Escherichia coli*, *Pseudomonas aeruginosa* and *Staphylococcus aureus* must not be detectable in the cosmetic product. Microbiological specifications for the product have been supplied and meet the requirements specified therein for this type of product.

Microbiological specification test report or data was listed in the Appendix 2-1

This product is a single use cosmetic product which can be used only once and is then disposed of. Preservative challenge testing is therefore not applicable to the safety of this product and only microbiological quality testing of the finished cosmetic product is required.

STABILITY OF COSMETIC PRODUCT

It is assumed that the responsible person has selected all pertinent criteria required to evaluate the stability of this cosmetic product during reasonable foreseeable conditions of storage. The stability report provided by the supplier and based upon the conclusions made therein, this cosmetic product appears to be stable under reasonably foreseeable storage conditions.

Stability Test Report or Data of Cosmetic Product was listed in the Appendix 3

PACKAGING COMPATIBILITY

It is assumed that the responsible person has identified the most applicable testing required to determine the packaging stability and its interaction with the cosmetic product contained within it. Taking into consideration the information supplied to the assessor, there appears to be no immediate health concern due to the characteristics of packaging materials in direct contact with the final product.

Package Compatibility Test Report and/or data was listed in the Appendix 4

SERIOUS / UNDESIRABLE EFFECTS

The supplier has confirmed that no undesirable effects or serious undesirable effects of this cosmetic product have been reported or, where relevant, cosmetic products with a similar formulation.

Serious/ Undesirable Effects of Cosmetic Product Declaration was listed in Appendix 5

FRAGRANCE COMPOSITIONS

This formulation does not contain a synthetic fragrance and therefore a fragrance safety evaluation as per IFRA code of practice is not applicable to this product.

According to Cosmetic Regulation (EC) No. 1223/2009, a complete cosmetic product safety report shall, at a minimum, contain cosmetic product safety information and cosmetic product safety assessment. The former includes raw materials and packaging material specifications, toxicological profile of substance (taking into account of purity of substance) contained in the cosmetic product and any known undesirable effects of the cosmetic product.



TOXICOLOGICAL & REGULATORY REVIEW

The product is mainly a mixture of solvent, moisturizer, skin conditioner and pH regulating agent. None of the ingredients is on the prohibition list of the Cosmetic Regulation (EC) No. 1223/2009.

Most of the ingredients are commonly used in cosmetic products and reviewed by CIR Panel, CIR confirmed that peg/ppg/polybutylene glycol - 8/5/3 glycerin, ammonium acryloyldimethyltaurate/vp copolymer, centella asiatica extract are safe for use at the current level.

According to above information, there is no safety concern for the ingredients used in this product. However, the possibility cannot be discounted that a small number of users may experience an allergic reaction or other idiosyncratic reaction to an ingredient in the formulation if they have been previously sensitized to the ingredient.

Limits of heavy metals were satisfied legal requirements and testing report was listed in the Appendix 7

No existing studies from human volunteers were provided.

Effects of the product as supplied on the skin

The formulation as supplied may cause only minimal skin irritation even if exposure is prolonged and/or repeated.

Repeated exposure to the formulation as supplied is unlikely to produce allergy by skin contact.

Exposure to this product is unlikely to result in phototoxic effects.

Unlikely to cause damage to internal organs following absorption through the skin.

Effects of the product as supplied on the eye

Accidental exposure of the eye to the formulation as supplied may result in minimal eye irritation.

Effects following ingestion of the product as supplied

The formulation as supplied if swallowed is unlikely to cause harm.

Effects of inhaling the product

Inhalation is an unlikely route of exposure

Overall Assessment Conclusion

The ingredients are legally permitted as per Cosmetic Regulation (EC) No 1223/2009 and its amendments and the safety assessment has been carried out in accordance to this regulation. They must comply with the relevant purity standards for cosmetic ingredients. It is assumed that these ingredients do not contain any undisclosed impurities/contaminants that would affect the conclusions reached. The product must be manufactured in accordance with EU Guidance on Good Manufacturing Practice.

Under normal or reasonably foreseeable conditions of use, product made to this formulation is unlikely to produce an abnormally high number of adverse reactions.

Cosmetic Regulations Product Safety Assessor

Leshuai Zhang, Toxicologist, PhD, DABT, ERT, UKRT

Intertek GM Testing Services Zhuhai Co. Ltd.

6/F, R&D and Testing/B, Guangdong-Macau TCM Park commercial Service center, 2522 Huan Dao Bei Road, Hengqin New Area, Zhuhai, China

Date: 22 Nov 2022



SUMMARY OF TOXICOLOGICAL INFORMATION OF SUBSTANCES

Remark: Substance toxicological summary was listed in this section and used only for MoS calculation, please refer to Toxicological Profiles of Substances for full information.

Chemical Substance: AQUA (WATER)

EU INCI NAME:aqua (Water)

CAS: 7732-18-5

EINECS 231-791-2

Appearance: Liquid

Water Solubility: highly soluble

Function: Solvent

Melting Point: 0°C

Boiling Point: 100°C

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification>

Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 15.67976 No NOAEL Available

NOAEL mg/kg bw day: -

SED Child mg/kg bw/day: 56.33449 No NOAEL Available

NOAEL test method: -

SED Baby mg/kg bw/day: 159.4552 No NOAEL Available

Toxicological Summary:

Simply water unlikely to cause irritation, allergy or harm. Used in many cosmetic products as a solvent and necessary to sustain biological life. The source of water should be known, monitored to GMP and either a deionized or high purity grade free from toxins, pollutants and bacteriological contamination should be used in cosmetic products.

Chemical Substance: GLYCERIN

EU INCI NAME:GLYCERIN

CAS: 56-81-5 / 8013-25-0

EINECS 200-289-5

Appearance: liquid

Log Kow: -1.76

Water Solubility: miscible with water

Function: Denaturant / Humectant / Perfuming / Solvent / Fragrance
Ingredient / Hair & Skin Conditioning Agent / Oral Care Agent
/ Skin Protectant / Viscosity Decreasing Agent

Melting Point: ~18°C

Boiling Point: 290°C

Vapour Pressure: <0.01 mm Hg @ 20°C

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> unclassified

EU CLP Harmonised Classification>

unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 3.51633 MoS - Adult 60kg: 1302.4

NOAEL mg/kg bw day: 4580

SED Child mg/kg bw/day: 12.63353 MoS - Child 16.7kg: 362.5

NOAEL test method: 90-day oral

SED Baby mg/kg bw/day: 35.75932 MoS - Baby 5.9kg: 128.0

Toxicological Summary:

The ingredient is not acutely toxic, a skin irritant, an eye irritant, a skin sensitizer, mutagenic, carcinogenic, a reproductive toxicant, nor is it bioaccumulative. No information was available on its phototoxicity. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics.

Chemical Substance: BUTYLENE GLYCOL

EU INCI NAME:Butylene Glycol

CAS: 107-88-0

EINECS 203-529-7

Appearance: Viscous liquid

Log Kow: -0.29

Water Solubility: miscible

Function: humectants / solvents

Melting Point: -77°C

Boiling Point: 207.5 °C

Vapour Pressure: 0.08 at 20°C

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification>

Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 1.96991 MoS - Adult 60kg: 3625.9

NOAEL mg/kg bw day: 6000

SED Child mg/kg bw/day: 7.07754 MoS - Child 16.7kg: 1009.2

NOAEL test method: 90-days toxicity study to dogs

SED Baby mg/kg bw/day: 20.03305 MoS - Baby 5.9kg: 356.5

Toxicological Summary:

The ingredient is not acutely toxic via dermal and oral route; it is not a skin irritant, a skin sensitizer, mutagenic, carcinogenic, a reproductive toxicant, or photosensitizer. Low bioaccumulation potential based on study results. Undiluted butylenes glycol was not an eye irritant to rabbits, but was to humans. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics when formulated to be non-irritating.



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Chemical Substance: PROPANEDIOL

EU INCI NAME:PROPANEDIOL

CAS: 504-63-2

EINECS 207-997-3

Function: Solvent

Appearance: liquid

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Not known

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 1.42450 MoS - Adult 60kg: 585000.5

NOAEL mg/kg bw day: 1000

SED Child mg/kg bw/day: 5.11796 MoS - Child 16.7kg: 162825.1

NOAEL test method: 13-week rat study (developmental)

SED Baby mg/kg bw/day: 14.48644 MoS - Baby 5.9kg: 57525.0

Toxicological Summary:

Cosmetic Functions : Solvent / Viscosity Controlling / Viscosity Decreasing Agent. Widely used alcoholic solvent. In most cases a low irritation potential substance but can enhance the irritancy of soap mixtures especially in patch tests. Propanediol was tested for inhalation toxicity (Inhal Toxicol. 2005 Aug;17(9):487-93). The highest concentration tested, 1800 mg/m³ was also considered the no-observed-effect level (NOEL) for this study. 1,3-Propanediol does not appear to pose a significant hazard via inhalation of either the vapor or a vapor/aerosol mixture. 1,3-propanediol is of low toxicity following oral administration. In a 13-week rat study the NOAEL was 1000 mg/kg bw/day. In the developmental study, the LOAEL was 250 mg/kg bw/day for marginal fetal effects (retarded ossification).

A more recent study published in cosmetic and toiletries magazine, provided a review of 1,3-propanediol vs propylene glycol. In studies on 100 human volunteers, PDO up to 50% was found to be non irritating, non sensitizing and non fatiguing. A few people in a 200 volunteer RIPT study, displayed signs of only mild redness following challenge application. It was concluded that PDO has low potential to irritate or sensitize human skin.

Reference: SCF/CS/CNTM/CARGO/16 Final4 April 2003.
Belcher, Dupont; Cosmetics and toiletries Magazine, 125, 5, 81-86.

Chemical Substance: PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN

EU INCI NAME:PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN

CAS: 220144-83-2

Function: Humectant

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Not classified

EU CLP Harmonised Classification> Not classified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 1.02666 No NOAEL Available

SED Child mg/kg bw/day: 3.68862 No NOAEL Available

SED Baby mg/kg bw/day: 10.44067 No NOAEL Available

Toxicological Summary:

Polymers of ethylene oxide used as humectants, solvents, binders, emulsion stabilizers, and viscosity increasing agents in cosmetics. Not expected to be irritating to the skin and eyes nor skin sensitizing. The structure of the polymer is not expected to be phototoxic. This class of polymer is not reported as carcinogenic or mutagenic. As MSDS states: The prolonged or repeated contact with substance may cause removal of natural fat from the skin and thus cause non-allergic contact dermatitis and absorption through the skin. Due to the polymeric nature of this chemical, the structure is expected to be inert and when applied topically is unlikely to penetrate the skin.

Chemical Substance: DIPEPTIDE DIAMINOBUTYROYL BENZYLAMIDE DIACETATE

CAS: -

EINECS -

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.64166 No NOAEL Available

SED Child mg/kg bw/day: 2.30538 No NOAEL Available

SED Baby mg/kg bw/day: 6.52542 No NOAEL Available

Toxicological Summary:

Function: SKIN CONDITIONING. The ingredient is not listed on the prohibition list of the Cosmetic Regulation (EC) No. 1223/2009.



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Chemical Substance: PENTYLENE GLYCOL

EU INCI NAME: PENTYLENE GLYCOL

CAS: 5343-92-0

EINECS 226-285-3

Appearance: Liquid

Log Kow: 0.06 (at 25 °C) / -0.28

Water Solubility: 1000 (at 20 °C)

Function: Moisturiser

Melting Point: -40

Boiling Point: 209.4 (99.4% purity)

Vapour Pressure: 1.46 (at 20 °C)

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Xi; R41

EU CLP Harmonised Classification> H318; Eye damage

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.30800 MoS - Adult 60kg: 3246.7

NOAEL mg/kg bw day: 1000

SED Child mg/kg bw/day: 1.10658 MoS - Child 16.7kg: 903.6

NOAEL test method:

Read across to 1,2-hexanediol; daily dermal application on rats for 91-93 days

SED Baby mg/kg bw/day: 3.13220 MoS - Baby 5.9kg: 319.2

Toxicological Summary:

1,2-pentanediol is a colourless liquid that is readily soluble in water and organic solvents. A glycol compound with a C3 side chain which will enhance its properties as a binding agent to water. Glycols are a class of compounds characterised by two hydroxyl (OH-) groups on separate carbons of an organic structure, usually linear and aliphatic. The most common sub-classification of glycols is the 1,2-diols in which propylene glycol is one of the most important members. Glycols are widely used in cosmetics, foods and in topical pharmaceutical applications as solvent/humectant. Pentylene glycol improves the water-binding capability of the skin and increases the degree of hydration, as such, acts as moisturiser when included in topical application. It is an efficient dermal absorption enhancer as demonstrated in a number of published peer-reviewed reports. Has been shown in vitro to have growth inhibitory effects on bacterial strains and putatively considered to have antimicrobial activities against bacteria, fungi and viruses.

Pentylene glycol is used as an alternative to propylene glycol because it is considered to be less irritating and allergenic. It has low acute toxicity. A single oral administration to rat induced signs of toxicity indicative of mild CNS effects with no changes observed in gross pathology. Oral LD50 was greater than 5000 mg/kg. Erythema was seen at the site of application in acute dermal study and clinical signs of toxicity including sedation, dyspnoea and exophthalmus were reported. No mortality or gross pathological effect were reported; the dermal LD50 > 2000 mg/kg. LC50 from inhalation of the aerosol was > 7015 mg/m3 (4h). Pentylene glycol has mild irritation potential. No erythema or edema (score =0) were seen on application of 100% solution to the skin of rabbits under semi-occlusive conditions; primary irritation index of 1.85. No irritation was reported in human volunteers (n=50) in a 48-hour occluded patch test with 10% pentylene glycol in aqua. However, pentylene glycol is irritating to the eye. Instillation of 100% solution in the eyes of rabbit resulted in conjunctiva redness and/or swelling and slight corneal opacity that has not resolved within 21 days (Primary irritation index of 31.7 and 25.5 for un rinsed and rinsed eyes, respectively). Thus, it has been classified with R41/H318 (Causes serious eye damage). Skin sensitisation potential were not noted in animal (GPMT; topical challenge dose of 10%) and in 53 human volunteers (HRIPT; 50% solution). However, there have been few case reports of allergic contact dermatitis to pentylene glycol in emollient creams which suggest that it may be a weak skin sensitiser. Pentylene glycol is not genotoxic; negative results reported in a battery of standard in vitro tests (bacteria mutation, chromosome aberration and mammalian cell gene mutation assays). Although, there is no specific investigation conducted, no evidence of phototoxicity potential has been noted from its application in topical products.

Repeated dose toxicity of pentylene glycol has not been investigated. Available data on structural closely related substances, 1,3-butanediol, 1,2-propanediol and 1,2-hexanediol, indicates that it will show little systemic adverse effects. Propylene glycol (1,2-propanediol) has been used for years in many applications and is "Generally Recognized as Safe" (GRAS) in food. Repeated exposures of rats to propylene glycol in drinking water or feed did not result in adverse effects at levels up to 10% in water (estimated at about 10 g/kg bw/day) or 5% in feed (dosage reported as 2.5 g/kg bw/day) for periods up to 2 years. Species-specific haematological effects were seen in cat in 90-day oral studies with the NOAEL/LOAEL determined as 80/443 mg/kg bw/d (OECD SIDS Initial Assessment Report for 1,2-dihydroxypropane, 2001).

In a 42-day developmental study with butylene glycol administered by oral gavage at doses of 40,200 or 1000 mg/kg bw/d, no mortality or significant toxicity effects were noted. Transient hypolocomotion and hyponea which indicate mild CNS effects were observed at 1000 mg/kg bw/d, which was considered to be the NOAEL. Daily dermal application of hexylene glycol (0, 350, 700, 1000 mg/kg bw/d) to rat skin for 91-93 days resulted in local effects of skin irritation, reduction in body weight and increase in organ weight (kidney, heart) of treated animal group. Treated skin changes included low incidence of slight focal erythema / thickening and minimal epidermal hyperplasia and hyperkeratosis. The study author concluded that the observed microscopic changes are not likely to progress to chronic skin damage or ulceration. The effect on organ weight was not associated with any pathological findings. Based on these slight changes, NOAEL for local and systemic effect are considered to be 700 and 1000 mg/kg bw/d, respectively. The data on the analogous compounds indicate that pentylene glycol has low carcinogenicity potential, and not likely to induce reproductive/developmental toxicity effects.

References:

(Faergemann J et al., Acta Derm. Venereol. 2005; 85(3): 203-5; abstract information).

(Gallo et al., 2003. Allergic contact dermatitis from pentylene glycol in an emollient cream with possible co-sensitisation to resveratrol. Contact Dermatitis; 48 (3): 176-7. Kerre S. (2008): Allergic contact dermatitis to pentylene glycol in a cosmetic cream. Contact Dermatitis; 58: 122-3; Arnado A et al.: Contact dermatitis to pentylene glycol in a prescription cream case report. Arch. Dermatol. 2008, 144: 810 -2)

Chemical Substance: PROPYLENE GLYCOL

EU INCI NAME: PROPYLENE GLYCOL

CAS: 57-55-6

EINECS 200-338-0

Appearance: liquid

Log Kow: -0.78

Water Solubility: miscible

Function: Humectant/Solvent

Skin Conditioning/Viscosity Controlling

Melting Point: -60°C

Boiling Point: 187°C

Vapour Pressure: 0.07 mm/Hg

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> unclassified

EU CLP Harmonised Classification> unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.15528 MoS - Adult 60kg: 19172.9

NOAEL mg/kg bw day: 1700

SED Child mg/kg bw/day: 0.55790 MoS - Child 16.7kg: 5336.4

NOAEL test method:

Chronic oral Toxicity to rat

SED Baby mg/kg bw/day: 1.57915 MoS - Baby 5.9kg: 1885.3

Toxicological Summary:

The ingredient is not acutely toxic, mutagenic, a reproductive toxicant, and is not carcinogenic. It is not a dermal irritant based on in vivo animal tests and clinical trials with human subjects. It causes minimal eye irritation according to OECD 405 test. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics when formulated to be non-irritating.

Chemical Substance: GLYCERYL POLYMETHACRYLATE

EU INCI NAME: GLYCERYL POLYMETHACRYLATE

CAS: 159339-88-5/ 146126-21-8/ 28474-30-8

EINECS polymer

Cosmetic Regulatory Summary:

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.12833 No NOAEL Available

SED Child mg/kg bw/day: 0.46107 No NOAEL Available

SED Baby mg/kg bw/day: 1.30508 No NOAEL Available

Toxicological Summary:

Cosmetic Functions : Viscosity Controlling / Film Former. A polymeric material with low potential to cause skin or eye irritancy. The level of free acrylic acid should be kept as low as possible to avoid skin irritancy and sensitisation problems.



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Chemical Substance: LACTOBACILLUS/BEAN SEED EXTRACT/SODIUM GLUTAMATE FERMENT FILTRATE

CAS: -

EINECS -

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.12833 No NOAEL Available

SED Child mg/kg bw/day: 0.46107 No NOAEL Available

SED Baby mg/kg bw/day: 1.30508 No NOAEL Available

Toxicological Summary:

Description: Lactobacillus/Bean Seed Extract/Sodium Glutamate Ferment Filtrate is a filtrate of the fermentation product of Phaseolus Radiatus Seed Extract and Sodium Glutamate by the microorganism Lactobacillus. Function: HAIR CONDITIONING/SKIN CONDITIONING. The ingredient is not listed on the prohibition list of the Cosmetic Regulation (EC) No. 1223/2009.

Chemical Substance: CARNOSINE

EU INCI NAME:CARNOSINE

CAS: 305-84-0

EINECS 206-169-9

Function: Skin conditioning agent

Melting Point: 253

Appearance: solid

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.10266 No NOAEL Available

SED Child mg/kg bw/day: 0.36886 No NOAEL Available

SED Baby mg/kg bw/day: 1.04406 No NOAEL Available

Toxicological Summary:

Cosmetic function: skin conditioning. This is a natural occurring antioxidant comprising of two amino acids, alanine and histidine. It is generally used in anti-aging products. Material when tested on animals shown to retard cancer growth and protect against alcohol-induced oxidative stress as well as ethanol-induced chronic liver damage. Carnosine found to be neuroprotective against permanent cerebral ischemia in mice model. Listed on CosIng as an cosmetic ingredient.

Chemical Substance: BACILLUS/SOYBEAN FERMENT EXTRACT

CAS: -

EINECS -

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.07700 No NOAEL Available

SED Child mg/kg bw/day: 0.27664 No NOAEL Available

SED Baby mg/kg bw/day: 0.78305 No NOAEL Available

Toxicological Summary:

Description: Bacillus/Soybean Ferment Extract is an extract of the product obtained by the fermentation of soybeans by the organism, Bacillus. Function: SKIN CONDITIONING. The ingredient is not listed on the prohibition list of the Cosmetic Regulation (EC) No. 1223/2009.

Chemical Substance: CAPRYLHYDROXAMIC ACID

EU INCI NAME:CAPRYLHYDROXAMIC ACID

CAS: 7377-03-9

EINECS 230-936-7

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.07700 No NOAEL Available

SED Child mg/kg bw/day: 0.27664 No NOAEL Available

SED Baby mg/kg bw/day: 0.78305 No NOAEL Available

Toxicological Summary:

Function: CHELATING. At a low concentration used in cosmetic products, not expected to pose an adverse risk to health.



Issued: 22 Nov 2022

GZHH0047425402

Chemical Substance: SODIUM HYALURONATE

EU INCI NAME: SODIUM HYALURONATE
CAS: 9067-32-7
EINECS -

Function: Humectant / Skin Conditioning

Appearance: powder

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> unclassified

EU CLP Harmonised Classification> unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.07700 MoS - Adult 60kg: 779.2
SED Child mg/kg bw/day: 0.27664 MoS - Child 16.7kg: 216.8
SED Baby mg/kg bw/day: 0.78305 MoS - Baby 5.9kg: 76.6

NOAEL mg/kg bw day: 60

NOAEL test method: Reproductive / Developmental Toxicity study

Toxicological Summary:

The ingredient is not acutely toxic via oral, a skin irritant, an eye irritant, a skin sensitizer, mutagenic, a reproductive toxicant, No enough information about the carcinogenic, bioaccumulative and phototoxic. Hyaluronic acid does not penetrate the skin. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics.

Chemical Substance: HYDROLYZED SODIUM HYALURONATE

CAS: -
EINECS -

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.07700 No NOAEL Available
SED Child mg/kg bw/day: 0.27664 No NOAEL Available
SED Baby mg/kg bw/day: 0.78305 No NOAEL Available

Toxicological Summary:

Description: Hydrolyzed Sodium Hyaluronate is the hydrolysate of Sodium Hyaluronate derived by acid, enzyme or other method of hydrolysis. Function: SKIN CONDITIONING. The ingredient is not listed on the prohibition list of the Cosmetic Regulation (EC) No. 1223/2009.

Chemical Substance: 1,2-HEXANEDIOL

EU INCI NAME: 1,2-HEXANEDIOL
CAS: 6920-22-5
EINECS 230-029-6

Function: Solvent

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.03850 No NOAEL Available
SED Child mg/kg bw/day: 0.13832 No NOAEL Available
SED Baby mg/kg bw/day: 0.39152 No NOAEL Available

Toxicological Summary:

A diol alcohol, Hexane diol has the formula $\text{CH}_3(\text{CH}_2)_4\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{OH}$. This alcohol is widely used in cosmetic products and incorporation into skin formulations will be uneventful.

Chemical Substance: AMMONIUM ACRYLOYLDIMETHYLTAURATE/VP COPOLYMER

CAS: -
EINECS -

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.02566 No NOAEL Available
SED Child mg/kg bw/day: 0.09221 No NOAEL Available
SED Baby mg/kg bw/day: 0.26101 No NOAEL Available

Toxicological Summary:

Description: Ammonium Acryloyldimethyltaurate/VP Copolymer is a copolymer of ammonium acryloyldimethyltaurate and vinylpyrrolidone monomers. Function: VISCOSITY CONTROLLING. The ingredient is not listed on the prohibition list of the Cosmetic Regulation (EC) No. 1223/2009.



Issued: 22 Nov 2022

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Chemical Substance: BETA-GLUCAN

EU INCI NAME: BETA-GLUCAN

CAS: 26874-89-5 / 53238-80-5 / 55965-23-6

EINECS 258-443-2 / 310-127-6

Function: Skin conditioning agent

Boiling Point: 865.2 °C at 760 mmHg

Appearance: powder

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification> Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.02566 MoS - Adult 60kg: 292207.7

NOAEL mg/kg bw day: 7500

SED Child mg/kg bw/day: 0.09221 MoS - Child 16.7kg: 81331.1

NOAEL test method: 99-114 wks in mice by oral

SED Baby mg/kg bw/day: 0.26101 MoS - Baby 5.9kg: 28733.7

Toxicological Summary:

Cosmetic function: skin conditioning. A polysaccharide consisting of b(1-3) linked glucose chains carrying b(1-6) linked glucose sidechains. Used to enhance the immune system and to lower blood cholesterol levels. When use in cosmetic products should be uneventful.

Chemical Substance: CENTELLA ASIATICA EXTRACT

EU INCI NAME: CENTELLA ASIATICA EXTRACT

CAS: 84696-21-9

EINECS 283-640-5

Function: Botanical

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification> Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.02566 No NOAEL Available

SED Child mg/kg bw/day: 0.09221 No NOAEL Available

SED Baby mg/kg bw/day: 0.26101 No NOAEL Available

Toxicological Summary:

Cosmetic function: skin conditioning. Centella Asiatica Extract is an extract of the leaves and roots of the of the hydrocotyl, Centella asiatica, Apiaceae. Call as Gotu Kola having culinary and is quite nutritious. Have antibacterial, anti-viral, anti-inflammatory, anti-ulcerogenic, anxiolytic, a cerebral tonic, a circulatory stimulant, a diuretic, nervine and vulnerary and other therapeutic properties. May be contraindicated in pregnancy and so should be avoided during lactation; may have photosensitivity reaction.

When incorporate into care cosmetic products should be uneventful.

Chemical Substance: ETHYLHEXYLGLYCERIN

EU INCI NAME: OCTOXYGLYCERIN

CAS: 70445-33-9

EINECS 408-080-2

Function: Skin conditioning agent/ preservative

Appearance: Solid

Log Kow: 2.4 +/- 0.55

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> R41-52/53

EU CLP Harmonised Classification> Eye Dam. 1

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.02566 MoS - Adult 60kg: 1948.0

NOAEL mg/kg bw day: 50

SED Child mg/kg bw/day: 0.09221 MoS - Child 16.7kg: 542.2

NOAEL test method: subchronic oral toxicity study

SED Baby mg/kg bw/day: 0.26101 MoS - Baby 5.9kg: 191.5

Toxicological Summary:

This ingredient is not acutely toxic. May cause mild skin irritation. Undiluted ethylhexylglycerin causes serious eye damage; 5% aqueous solution of ethylhexylglycerin was mildly irritating to eyes. It is not sensitizing, mutagenic or reproductive toxic.

Chemical Substance: HYDROLYZED SCLEROTIUM GUM

EU INCI NAME: HYDROLYZED SCLEROTIUM GUM

CAS: -

EINECS -

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.02566 No NOAEL Available

NOAEL mg/kg bw day: -

SED Child mg/kg bw/day: 0.09221 No NOAEL Available

SED Baby mg/kg bw/day: 0.26101 No NOAEL Available

Toxicological Summary:

Function: FILM FORMING, HUMECTANT and SKIN PROTECTING. Hydrolyzed Sclerotium Gum is the hydrolysate of Sclerotium Gum derived by acid, enzyme or other method of hydrolysis. At a low concentration used in cosmetic products, not expected to pose an adverse risk to health.



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Chemical Substance: XANTHAN GUM

EU INCI NAME: XANTHAN GUM

CAS: 11138-66-2

EINECS 234-394-2

Function: Binders / Emulsion stabilisers / Viscosity controlling agents

Appearance: Cream coloured powder (JECFA, 1999; CIR, 2012)

Water Solubility: Soluble (JECFA, 1999)

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> unclassified

EU CLP Harmonised Classification> unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.02566	MoS - Adult 60kg: 38961.0	NOAEL mg/kg bw day: 1000	
SED Child mg/kg bw/day: 0.09221	MoS - Child 16.7kg: 10844.1	NOAEL test method:	CD rats 104 weeks oral
SED Baby mg/kg bw/day: 0.26101	MoS - Baby 5.9kg: 3831.1		

Toxicological Summary:

The ingredient is not acutely toxic through the oral and inhalation routes. It is not an ocular or skin irritant and is not sensitizing. It is not carcinogenic, reprotoxic and does not bioaccumulate in the body. No information is readily available on the mutagenicity, dermal absorption/ percutaneous potential as well as the acute dermal toxicity of the ingredient. It should be noted that this ingredient has been approved by the EU and FDA as a food additive. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics

Chemical Substance: CARBOMER

EU INCI NAME: CARBOMER

CAS: 54182-57-9 / 9007-20-9 / 9003-01-4 / 76050-42-5 /

EINECS 9062-04-8 / 9007-16-3 / 9007-17-4

polymer

Function: Thickener

Appearance: gel/powder

Cosmetic Regulatory Summary:

EU Cosmetics Status: May contain benzene whose use is prohibited by Saudi legislation. Should be analyzed to ensure that no benzene is present.

Regulatory Summary:

EU DSD/DPD Classification> unclassified

EU CLP Harmonised Classification> unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.01283	MoS - Adult 60kg: 7792.2	NOAEL mg/kg bw day: 100	
SED Child mg/kg bw/day: 0.04610	MoS - Child 16.7kg: 2168.8	NOAEL test method:	Chronic oral study
SED Baby mg/kg bw/day: 0.13050	MoS - Baby 5.9kg: 766.2		

Toxicological Summary:

The ingredient is not acutely toxic by oral or dermal routes. It is considered to be acutely harmful by inhalation route. It is non to minimally skin irritating, non to moderately eye irritating, non phototoxic/non photo-allergic and has no to low potential for skin sensitization. It has a low bioaccumulation potential. No information is readily available on the ingredient's mutagenicity, carcinogenicity, reproductive/developmental toxicity or dermal/ percutaneous absorption. However, it has not been identified on any positive lists as having CMR potential (substitution of carcinogens, mutagens and reproductive toxins). In addition, being a large polymer, dermal absorption should not occur. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics.

Chemical Substance: FOLIC ACID

EU INCI NAME: FOLIC ACID

CAS: 59-30-3

EINECS 200-419-0

Function: biological additives

Cosmetic Regulatory Summary:

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.01283	No NOAEL Available
SED Child mg/kg bw/day: 0.04610	No NOAEL Available
SED Baby mg/kg bw/day: 0.13050	No NOAEL Available

Toxicological Summary:

Folic acid is a B vitamin and an essential component of the human diet. Food (especially grain) supplementation with folic acid is practiced in several countries as a means of guarding against neural tube defects in babies. Use at low levels in cosmetic products should be free of adverse human health effects.

Chemical Substance: PALMITOYL TETRAPEPTIDE-7

EU INCI NAME: PALMITOYL TETRAPEPTIDE-7

CAS: polymer

EINECS polymer

Function: Emollient/Hair & Skin Conditioning

Regulatory Summary:

EU DSD/DPD Classification> Not classified

EU CLP Harmonised Classification> Not classified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.01283	No NOAEL Available
SED Child mg/kg bw/day: 0.04610	No NOAEL Available
SED Baby mg/kg bw/day: 0.13050	No NOAEL Available

Toxicological Summary:

Manufacturers information indicates that the product is minimally irritating to skin or eyes, not a skin sensitiser, negative the the Ames test. Use in a cosmetic product should not present any problems.

**Chemical Substance: PALMITOYL TRIPEPTIDE-1**

CAS: 147732-56-7

EINECS -

EU DSD/DPD Classification->

EU CLP Harmonised Classification->

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.01283 No NOAEL Available
SED Child mg/kg bw/day: 0.04610 No NOAEL Available
SED Baby mg/kg bw/day: 0.13050 No NOAEL Available

Toxicological Summary:

Description: Palmitoyl Tripeptide-1 is the reaction product of palmitic acid and Tripeptide-1. Function: SKIN CONDITIONING. The ingredient is not listed on the prohibition list of the Cosmetic Regulation (EC) No. 1223/2009.

Chemical Substance: POLYSORBATE 20

EU INCI NAME:POLYSORBATE 20

CAS: 9005-64-5

EINECS 500-018-3

Function: Emulsifier/Surfactant

Log Kow: 4.23

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification-> unclassified

EU CLP Harmonised Classification-> Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.01283 MoS - Adult 60kg: 38961.0 NOAEL mg/kg bw day: 500
SED Child mg/kg bw/day: 0.04610 MoS - Child 16.7kg: 10844.1 NOAEL test method: developmental toxicology test to SD rats
SED Baby mg/kg bw/day: 0.13050 MoS - Baby 5.9kg: 3831.1

Toxicological Summary:

The ingredient is not acutely toxic via oral and dermal route, mutagenic, carcinogenic, a reproductive toxicant, bioaccumulative. The substances may not be classified as skin irritating and eye irritating based on available studies via weight of evidence according to CLP criteria. The current data are insufficient to make a conclusion for skin sensitization. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics when formulated to be non-irritating and non-sensitizing.

Chemical Substance: CITRIC ACID

EU INCI NAME:citric Acid

CAS: 77-92-9 / 5949-29-1

EINECS 201-069-1

Function: Buffering/Chelating/Masking

Appearance: Solid

Log Kow: -1.72

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification-> R36

EU CLP Harmonised Classification-> Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00770 MoS - Adult 60kg: 155844.1 NOAEL mg/kg bw day: 1200
SED Child mg/kg bw/day: 0.02766 MoS - Child 16.7kg: 43376.6 NOAEL test method: 2-year chronic oral study
SED Baby mg/kg bw/day: 0.07830 MoS - Baby 5.9kg: 15324.6

Toxicological Summary:

The ingredient is not acutely toxic, a skin sensitizer, mutagenic, carcinogenic, a reproductive, but it is a mild skin irritant, a serious eye irritant. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics when formulated to be non-irritating.

Chemical Substance: SODIUM POLYGLUTAMATE

EU INCI NAME:SODIUM POLYGLUTAMATE

CAS: 28829-38-1

EINECS polymer

Function: humectants

EU DSD/DPD Classification->

EU CLP Harmonised Classification->

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00513 No NOAEL Available
SED Child mg/kg bw/day: 0.01844 No NOAEL Available
SED Baby mg/kg bw/day: 0.05220 No NOAEL Available

Toxicological Summary:

Synthetic polymer formed by the polymerization of glutamic acid. Used as a skin and hair conditioning agent this polymer if a naturally occurring amino acid is not expected to present any risks to health when used in cosmetics.



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Chemical Substance: DISODIUM PHOSPHATE

EU INCI NAME:DISODIUM PHOSPHATE

CAS: 7558-79-4/7782-85-6/10028-24-7

EINECS 231-448-7

Function: Buffering/Masking/Anticorrosive

Melting Point: > 723 K

Appearance: Solid

Water Solubility: > 10000 mg/L

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> unclassified

EU CLP Harmonised Classification> unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00128	MoS - Adult 60kg: 251532.4	NOAEL mg/kg bw day: 322.8	
SED Child mg/kg bw/day: 0.00461	MoS - Child 16.7kg: 70009.8	NOAEL test method:	90-day oral in rats
SED Baby mg/kg bw/day: 0.01305	MoS - Baby 5.9kg: 24734.0		

Toxicological Summary:

The ingredient is not acutely toxic, a skin irritant, an eye irritant, a skin sensitizer, mutagenic, a reproductive toxicant and bioaccumulative. No information available for phototoxic. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics when formulated to be non-irritating and non-sensitizing.

Chemical Substance: FIBRONECTIN

EU INCI NAME:FIBRONECTIN

CAS: 86088-83-7

EINECS 289-149-2

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

EU DSD/DPD Classification>

EU CLP Harmonised Classification>

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00128	No NOAEL Available
SED Child mg/kg bw/day: 0.00461	No NOAEL Available
SED Baby mg/kg bw/day: 0.01305	No NOAEL Available

Toxicological Summary:

Function: SKIN CONDITIONING. The ingredient is not listed on the prohibition list of the Cosmetic Regulation (EC) No. 1223/2009.

Chemical Substance: METHYLPARABEN

EU INCI NAME:METHYLPARABEN

CAS: 99-76-3

Function: preservatives

Appearance: Powder

Log Kow: 1.87 or 1.66

Water Solubility: Slightly soluble

Cosmetic Regulatory Summary:

EU Cosmetics Status: Approved preservative

Regulatory Summary:

EU DSD/DPD Classification> R36/37/38

EU CLP Harmonised Classification> Unclassified

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00128	MoS - Adult 60kg: 21060021.0	NOAEL mg/kg bw day: 1000	
SED Child mg/kg bw/day: 0.00461	MoS - Child 16.7kg: 5861705.8	NOAEL test method:	96 weeks oral in rats
SED Baby mg/kg bw/day: 0.01305	MoS - Baby 5.9kg: 2070902.0		

Toxicological Summary:

The ingredient is not acutely toxic by oral or dermal administration or by inhalation. It is not a skin irritant in humans at concentrations of 5% or less, but when treated with undiluted methylparaben, mild skin irritation occurs. 100% methylparaben causes slight, transient eye irritation; however, 0.2% is non-irritating to the eyes. Methylparaben is not a skin sensitizer, a mutagen, a carcinogen, a reproductive toxicant, bioaccumulative nor phototoxic. Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics when formulated to be non-irritating.

Chemical Substance: PROPYLPARABEN

EU INCI NAME:PROPYLPARABEN

CAS: 94-13-3

EINECS 202-307-7

Function: Preservative

Melting Point: 95-98

Appearance: Solid

Cosmetic Regulatory Summary:

EU Cosmetics Status: Permitted preservative all products. Max 0.14% by weight (acid).

Regulatory Summary:

EU DSD/DPD Classification> R36/37/38

EU CLP Harmonised Classification> H315, H319, H335

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00128	MoS - Adult 60kg: 42120.0	NOAEL mg/kg bw day: 2	
SED Child mg/kg bw/day: 0.00461	MoS - Child 16.7kg: 11723.4	NOAEL test method:	reproductive toxicity study in rats
SED Baby mg/kg bw/day: 0.01305	MoS - Baby 5.9kg: 4141.8		

Toxicological Summary:

The ingredient is not acutely toxic, a skin sensitizer, mutagenic, carcinogenic, bioaccumulative or phototoxic and is a minimal skin and eye irritant. Potential endocrine and reproductive effects have been identified (significance unknown; SCCS, 2011a; SCCS, 2011b; CIR, 2008; JECFA, 2007). Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics when formulated to comply with the maximum authorized concentration.



Issued: 22 Nov 2022

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Chemical Substance: PVM/MA COPOLYMER

EU INCI NAME: PVM/MA COPOLYMER

CAS: 9011-16-9 / 25153-40-6 / 25246-64-3

EINECS POLYMER

Appearance: powder (CIR, 2011)

Water Solubility: Soluble (CIR, 2011)

Function: antistatic agents / binders / emulsion stabilisers / film formers / oral care agents

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> Unclassified

Unclassified

EU CLP Harmonised Classification->

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00128 No NOAEL Available

NOAEL mg/kg bw day: -

SED Child mg/kg bw/day: 0.00461 No NOAEL Available

NOAEL test method: -

SED Baby mg/kg bw/day: 0.01305 No NOAEL Available

Toxicological Summary:

The ingredient is not acutely toxic, a skin irritant, an eye irritant, a skin sensitizer, mutagenic or phototoxic. The data for carcinogenicity, reproductive/developmental toxicity is not available. The CIR Expert Panel concluded that the PVM/MA copolymer is safe as cosmetic ingredients with the concentration 0.0006-13% (CIR, 2011). Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics.

Chemical Substance: SODIUM PHOSPHATE

EU INCI NAME: SODIUM PHOSPHATE

CAS: 7558-80-7 / 7632-05-5 / 10049-21-5

EINECS 231-449-2 / 231-558-5

Appearance: Solid

Water Solubility: > 10000 mg/L

Function: Buffering/Masking/Anticorrosive

Melting Point: > 723 K

Cosmetic Regulatory Summary:

EU Cosmetics Status: Not controlled

Regulatory Summary:

EU DSD/DPD Classification> unclassified

unclassified

EU CLP Harmonised Classification->

Systemic Exposure Dosage / Margin of Safety:

SED Adult mg/kg bw/day: 0.00128 MoS - Adult 60kg: 292207.7

NOAEL mg/kg bw day: 375

SED Child mg/kg bw/day: 0.00461 MoS - Child 16.7kg: 81331.1

NOAEL test method: 90- day oral in rats

SED Baby mg/kg bw/day: 0.01305 MoS - Baby 5.9kg: 28733.7

Toxicological Summary:

The ingredient is not acutely toxic, a skin irritant, an eye irritant, a skin sensitizer. It is not mutagenic toxic, not a reproductive toxicant. The bioaccumulative potential could not be judged. No information on its carcinogenic and phototoxic potential. But it is a permitted food additive by WHO with MTDI of 70 mg/kg bw (as P) (JECFA, 2015). Based on this information and other scientific literature on this ingredient, safety concerns are not expected with this ingredient for use in cosmetics.

Note: In the absence of NOAEL data, the Margin of Safety (MoS) has not been calculated.

Unless otherwise determined and in the absence of literature or other experimental data, a Dermal Absorption (DAp) of 100% is taken as the worst case scenario.

NOAEL: No Observed Adverse Effect Level; MoS: Margin of Safety; SED Systemic Exposure Dosage

Calculation of Margin of Safety: MoS = NOAEL / SED

Reference for skin surface area, exposures and application quantities are derived from:

1. RIVM Report 320104001/2006
2. References cited in Dermal Sensitization Quantitative Risk Assessment (QRA) For Fragrance Ingredients, 2006 revision
3. Exposure factors handbook 2009 Update
4. The SCCS's Notes of Guidance for the Testing of Cosmetic Ingredients and their Safety Evaluation 10th Revision SCCS/1501/12
5. Colipa Data SCCNFP/0321/02
6. McNamara et al, Food Chem. Tox; 2007, 45, 2086
7. Loretz et al, Food Chem. Tox; 2008, 46, 1516
8. Body weights taken from Exposure factors handbook 2009 Update and mean values have been used unless specified otherwise
9. ConsExpo database
10. New default values for the spray model, RIVM, March 2010

This formulation has been safety assessed by Intertek with reference to Articles 3 and 10 of Cosmetic Regulation (EC) No. 1223/2009. The safety assessment is based on the chemical specification and toxicological profile of the ingredients as supplied at the time of assessment.

The supplier to this safety assessment is advised to ask for a new safety evaluation if any change in formulation occurs, change in raw materials used, abnormally high number of adverse events are recorded, changes in recommended uses or other circumstances that may affect the safety of this product.

The REACH dossier, IUCLID Datasheet, OECD SIDS and EU RAR often include unpublished data, not otherwise available; however, it must be noted that the authorities have issued legal disclaimers for the databases. The disclaimer, among other cautions, stressed that the data in the dossier, datasheet, data set or report are not necessarily comprehensive, complete, accurate or up-to-date. Use of the data may also be subject to copyright laws. Therefore, data from the such resource are used as supporting information.

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Appendixes of Cosmetic Product Safety Report

For

**[SQT Anti-Aging Rejuvenation Set-
SQT Firming Rejuvenation Essence]**

The testing report, declaration letter, SDS/MSDS, TDS, CoA, IFRA Certificate and other supportive document listed in this appendix were provided from client and delivered to risk assessor to conduct the CPSR, it is supplier' s responsibility to make sure the accuracy of the documents.

Appendix 1- Toxicological Profiles of Substances

1. *Toxicity summary*
2. *MSDS/SDS*
3. *TDS/CoA*

Appendix 2- Microbiological Quality Test Report of Cosmetic Product

1. *Microbiological specification test report or data*
2. *Preservative challenge test report or data*

Appendix 3- Stability Test Report or Data of Cosmetic Product

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2. *Human volunteers study for raw material*

Appendix 9- Assessor's credentials

Appendix 1- Toxicological Profiles of Substances

1. Toxicity summary

Substance toxicological summary was listed in this report and detailed data are stored in Intertek owned in house database, could provide on specific request.

2. MSDS/SDS

See below report(s) if available

3. TDS/CoA

See below report(s) if available



MATERIAL SAFETY DATA SHEET

(SQT Anti-Aging Rejuvenation Set)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of the substance or preparation:

Product Name: SQT Anti-Aging Rejuvenation Set
Use of the substance/preparation: Cosmetic additives

Company identification:

Manufactured By: Hunan Sunshine Bio-Tech Co., Ltd
Unit 1, E7 building, No. 27
Wenxuan Road, High-Tech Development Zone
Changsha 410000, P.R.of China

Phone Number: 86-731-83991999
Email: info@sunshineextract.com

2. HAZARDOUS IDENTIFICATION

Potential Acute Health Effects:

Hazardous in case of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.

3. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Identity: karnosin
Purity: 99%
ELINCS #: N/A
CAS#: 14808-60-7

4. FIRST AID MEASURES

Inhalation: Move person to fresh air immediately.
Eye Contact: Irrigate surfaces thoroughly with water
Skin Contact: Rinse areas thoroughly with water
Ingestion: Rinse mouth thoroughly with water

5. FIRE FIGHTING MEASURES

Special Fire Fighting Procedures: Ordinary extinguishing process can be taken in case of fire.

Extinguishing Media: No prohibited media.

Protection for the person-related fire fighting: Wear or use normal protective equipment. No special clothing or equipment is required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling: Once the container is opened it should be used promptly, as coloration and decomposition may occur by moisture absorption.

Storage: Storage below room temperature preferred. Store tightly closed in cool, dry, dark and ventilated conditions to maintain the quality for long period.

8. EXPOSURE CONTROL PERSONAL PROTECTION

Desirable Concentration: Not established

Acceptable Concentration: Not established

Facility Care: No special care required

Protective Care: Not necessary during usual handling

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white powder

Odor: Characteristic

Taste: Characteristic

Color: white powder

Critical Temperature: Not available.

Specific Gravity: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Very slightly soluble in cold water.

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans:

Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

13. DISPOSAL CONSIDERATION

Disposal Method:

Disposal should be made in accordance with federal, state and local regulation.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

The Law Concerning the Examination and Regulation of Manufacture etc. of Chemical Substances

- The Pharmaceutical Affairs Law

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. HUNAN SUNSHINE BIO-TECH CO., LTD shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Updated Jan.1, 2022

End of MSDS

Appendix 2- Microbiological Quality Test Report of Cosmetic Product

1. Microbiological specification test report or data

See below report(s) if available

2. Preservative challenge test report or data

See below report(s) if available

Test Report

Number: GZHH00472057

Applicant: Hunan Sunshine Bio-Tech Co., Ltd
Building E7, Lugu Yuyuan, No.27, Wenxuan Road, High-Tech Development Zone, Changsha, Hunan, China, 410000

Date: Nov 01, 2022

Sample Description:

One (1) style of submitted sample said to be :
Item Name : **SQT Anti-Aging Rejuvenation Set.**
Country of Origin : China.
Date Sample Received : Oct 20, 2022
Testing Period : Oct 20, 2022 to Nov 01, 2022

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested component(s) of submitted sample(s)	The European Cosmetic Regulation (EC) No.1223/2009 Annex I Part A 3, Microbiological control criteria of the cosmetic products.	Pass
	With reference to the Notification of the German Federal Health Office Centre (BGA) up to 1996 on toxic elements analysis for cosmetics	Meet

Intertek GM Testing Service Zhuhai Co. Ltd.

Maggie Liu

Maggie Liu
Technical Supervisor
Healthcare and Beauty Products



Test Report

Number: GZHH00472057

Tests Conducted

- 1 Microbiological examination of non-sterile products : Microbial Enumeration Tests and tests for specified microorganisms of submitted sample

With reference to British Pharmacopoeia (2020), Appendix XVI B2 & B1 and European Pharmacopoeia 10.0 Edition, Chapter 2.6.12 & 2.6.13.

Test Item		Result		Limit
		(1)	(2)	
(I)	Total Aerobic Microbial Count (per g)	<10 CFU#	<10 CFU#	Category (B): (I) + (II) should be ≤1,000 CFU
(II)	Moulds and Yeasts Count (per g)	<10 CFU#	<10 CFU#	
(III)	<i>Escherichia coli</i> (per g)	Absence	Absence	Absence
(IV)	<i>Pseudomonas aeruginosa</i> (per g)	Absence	Absence	Absence
(V)	<i>Staphylococcus aureus</i> (per g)	Absence	Absence	Absence
(VI)	<i>Candida albicans</i> (per g)	Absence	Absence	Absence
(VII)	Bile-Tolerant Gram-Negative Bacteria (per g)	Absence	Absence	-
(VIII)	<i>Salmonella sp.</i> (per 10g)	Absence	Absence	-
(IX)	<i>Clostridia sp.</i> (per g)	Absence	Absence	-

Test Item		Result		Limit
		(3)	(4)	
(I)	Total Aerobic Microbial Count (per g)	<10 CFU#	<10 CFU#	Category (B): (I) + (II) should be ≤1,000 CFU
(II)	Moulds and Yeasts Count (per g)	<10 CFU#	<10 CFU#	
(III)	<i>Escherichia coli</i> (per g)	Absence	Absence	Absence
(IV)	<i>Pseudomonas aeruginosa</i> (per g)	Absence	Absence	Absence
(V)	<i>Staphylococcus aureus</i> (per g)	Absence	Absence	Absence
(VI)	<i>Candida albicans</i> (per g)	Absence	Absence	Absence
(VII)	Bile-Tolerant Gram-Negative Bacteria (per g)	Absence	Absence	-
(VIII)	<i>Salmonella sp.</i> (per 10g)	Absence	Absence	-
(IX)	<i>Clostridia sp.</i> (per g)	Absence	Absence	-



Test Report

Number: GZHH00472057

Tests Conducted

Test component(s):

- (1) White cream (4-1)
- (2) Yellow liquid (4-2)
- (3) Transparent liquid attached to white non-woven cloth (4-3)
- (4) White cream (4-4)

Remark :

- # = No colony was detected at the one-tenth dilution of the sample
- CFU = Colony Forming Unit
- < = Less than
- ≤ = Less than or equal to

The limit for test item (I) and (II) is with reference to the notes of guidelines on microbiological quality of the finished cosmetic products adopted by Scientific Committee on Consumer Safety (SCCS, 11th Rev., 2021) of the European Commission, Microbiological Quantitative Limits for Category B Cosmetic Products.

Category A: Cosmetic products specifically intended for children under 3 years, eye area and mucous membranes.

Category B: Other cosmetic products.

Sample received condition: sample (1)、(2)、(4) in closed bottle, sample (3) in unopened container.



Test Report

Number: GZHH00472057

Tests Conducted

2 Toxic Element Analysis (Cosmetics)

Acid digestion for Antimony (Sb), Arsenic (As), Cadmium (Cd), Lead (Pb) and Mercury (Hg) and perspiration simulant extraction for Soluble Nickel (Ni), follow by Inductively Coupled Plasma Mass Spectrometry analysis.

Element	Result (ppm)				Reporting Limit (ppm)	Limit# (ppm)
	Test component(s)					
	(1)	(2)	(3)	(4)		
Total Antimony (Sb)	ND	ND	ND	ND	0.1	10
Total Arsenic (As)	ND	ND	ND	ND	0.1	5
Total Cadmium (Cd)	ND	ND	ND	ND	0.1	5
Total Lead (Pb)	ND	ND	ND	ND	0.1	20
Total Mercury (Hg)	ND	ND	ND	ND	0.1	1
Soluble Nickel (Ni)	ND	ND	ND	ND	0.1	10

Test component(s):

- (1) White cream (4-1)
- (2) Yellow liquid (4-2)
- (3) Transparent liquid attached to white non-woven cloth (4-3)
- (4) White cream (4-4)

Remark :

ppm = parts per million = mg/kg

= The limit is with reference to the Notification of the German Federal Health Office (BGA), Pg 28, No. 7, July 1985 and No. 7/1992 and No. 4/1996 for cosmetics

ND = Not detected (less than reporting limit)

End of report

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Appendix 3- Stability Test Report or Data of Cosmetic Product

See below report(s) if available

Heat resistance	At (40+1)°C , no significant differences in traits after return to room temperature.	Comply	Comply	Comply	Comply	Comply	Comply	Comply
Cold resistance	At (5+1)°C, no significant differences in traits after return to room temperature.	Comply	Comply	Comply	Comply	Comply	Comply	Comply
PH	4.0-8.5	6.7	6.8	6.9	6.7	6.9	6.6	6.7
Net content	Should comply with the regulations	Comply	Comply	Comply	Comply	Comply	Comply	Comply
Total number of colonies	≤ 1000CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g
Total Mold and Yeast	≤ 100CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g
Conclusion	This product was tested according to QB/T 2660 and the results were in accordance with the regulations.							

Head of Quality : Phil

Reviewer: Peter

Inspector: Adam

Inspection number: CP2022070312

Product Name	SQT Firming Repairing Mask	Batch Number	2527A15301
Specification	28ml/Piece	Source	Production Department
Representative Amount	10568 pieces	Sampling Date	July 03, 2022
Sampling Amount	4 pieces	Report Date	October 25, 2022
Inspection Purpose	Finished product inspection	Testing Basis	QB/T 2872

Test items	Standard Regulation	0 week	2 week	4 weeks	6 weeks	8 weeks	12 weeks	16 weeks
Appearance	Moist fiber film, free from impurities	Comply	Comply	Comply	Comply	Comply	Comply	Comply
Odor	Odorless	Comply	Comply	Comply	Comply	Comply	Comply	Comply
Colour	Colorless	Comply	Comply	Comply	Comply	Comply	Comply	Comply
Packaging materials	Clear facial mask bag	Comply	Comply	Comply	Comply	Comply	Comply	Comply
Heat resistance	At (40+1)°C , no significant differences in traits after return to room temperature.	Comply	Comply	Comply	Comply	Comply	Comply	Comply
Cold resistance	At (5+1)°C, no significant differences in traits after return to room temperature.	Comply	Comply	Comply	Comply	Comply	Comply	Comply
PH	4.0-8.5	5.9	6.1	6.0	6.0	5.9	6.1	5.9
Net content	Should comply with the regulations	Comply	Comply	Comply	Comply	Comply	Comply	Comply
Total number of colonies	$\leq 1000\text{CFU/g}$	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g
Total Mold and Yeast	$\leq 100\text{CFU/g}$	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g
Conclusion	This product was tested according to QB/T 2872 and the results were in accordance with the regulations.							

Head of Quality : Phil

Reviewer: Peter

Inspector: Adam

Total Mold and Yeast	$\leq 100\text{CFU/g}$	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g	<10CFU/g
Conclusion	This product was tested according to QB/T1857 and the results were in accordance with the regulations.							

Head of Quality : Phil

Reviewer: Peter

Inspector: Adam

Appendix 4- Packaging Compatibility Test Report and/or data

1. Container data

1.1 Basic information

No detail information was provided

2. Outer Packaging material

See below report(s) if available

Test Report

Number: GZHH00472087

Applicant: Hunan Sunshine Bio-Tech Co., Ltd
Building E7, Lugu Yuyuan, No.27, Wenxuan Road, High-Tech Development Zone, Changsha, Hunan, China, 410000

Date: Oct 28, 2022

Sample Description:

One (1) style of submitted sample said to be :

Item Name : **(1) 5ml brown soda lime glass vial
(2) Butyl plug.**

Country of Origin : China.

Date Sample Received : Oct 20, 2022

Testing Period : Oct 20, 2022 to Oct 28, 2022

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested component(s) of submitted sample(s)	Heavy Metals Content Requirement in Directive 94/62/EC and amendments on packaging and packaging waste	Pass

Intertek GM Testing Service Zhuhai Co. Ltd.

Maggie Liu

Maggie Liu
Technical Supervisor
Healthcare and Beauty Products



Test Report

Number: GZHH00472087

Tests Conducted

1 Toxic Elements Analysis

Alkaline digestion method was used and Hexavalent Chromium was determined by UV-Visible Spectrophotometry; Acid digestion method was used and Lead, Cadmium and Mercury were determined by Inductively Coupled Plasma Mass Spectrometry.

Element	Result (ppm)		Detection Limit (ppm)	Limit (ppm)
	Tested Component			
	(1)	(2)		
Lead (Pb)	ND	11.0	5	--
Cadmium (Cd)	ND	ND	5	--
Mercury (Hg)	ND	ND	5	--
Chromium VI (Cr (VI))	ND	ND	1	--
Sum of Pb, Cd, Hg and Cr (VI)	ND	11.0	--	100

Tested Component(s):

- (1) Brown glass bottle with orange printing
- (2) Black plastic inner plug

ppm = part per million = mg/kg
ND = Not detected (less than detection limit)

Remark: Only detected element(s) is / are included in calculation of the sum.

End of report

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Appendix 5- Serious/ Undesirable Effects of Cosmetic Product Declaration or Report

See below report(s) if available

LETTER OF DECLARATION

To Whom It May Concern:

Product Name: SQT Anti-Aging Rejuvenation Set

Product: SQT Biomicroneedling Firming Cream

Chemical Name	Trade Name	Concentration (%)
AQUA	AQUA	53.66-58.74
GLYCERIN	GLYCERIN	6-6.6
PROPANEDIOL	PROPANEDIOL	5-5.5
HYDROLYZED SPONGE	HYDROLYZED SPONGE	5
CALCIUM SILICATE	CALCIUM SILICATE	
SODIUM SILICATE	SODIUM SILICATE	
C13-15 ALKANE	C13-15 ALKANE	4.5-5.0
ISONONYL ISONONANOATE	ISONONYL ISONONANOATE	4-4.5
AQUA	AQUA	3-3.3
GLYCERIN	GLYCERIN	
SODIUM ACRYLIC ACID/MA COPOLYMER	SODIUM ACRYLIC ACID/MA COPOLYMER	
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
CAPRYLYL GLYCOL	CAPRYLYL GLYCOL	
HEXANEDIOL	HEXANEDIOL	
CETEARYL ALCOHOL	CETEARYL ALCOHOL	2-2.2
DIMETHICONE	DIMETHICONE	1.5-1.65
GLYCERYL STEARATE	GLYCERYL STEARATE	1.35-1.5
PEG-100 STEARATE	PEG-100 STEARATE	
RICE FERMENT FILTRATE (SAKE)	RICE FERMENT FILTRATE (SAKE)	1.4-1.54
HYDROXYACETOPHEN ONE	HYDROXYACETOPHEN ONE	
1,2-HEXANEDIOL	1,2-HEXANEDIOL	
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
THEOBROMA GRANDIFLORUM SEED BUTTER	THEOBROMA GRANDIFLORUM SEED BUTTER	1.2-1.32
SILICA	SILICA	1-1.1
INOSITOL	INOSITOL	1-1.1
JOJOBA ESTERS	JOJOBA ESTERS	0.8-0.88

HELIANTHUS ANNUUS (SUNFLOWER) SEED WAX	HELIANTHUS ANNUUS (SUNFLOWER) SEED WAX	
ACACIA DECURRENS FLOWER WAX	ACACIA DECURRENS FLOWER WAX	
POLYGLYCERIN-3	POLYGLYCERIN-3	
GLYCERYL CAPRYLATE	GLYCERYL CAPRYLATE	0.8-0.88
CAPRYLHYDROXAMIC ACID	CAPRYLHYDROXAMIC ACID	
HYDROXYACETOPHEN ONE	HYDROXYACETOPHEN ONE	
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
AQUA	AQUA	
DIMETHICONE	DIMETHICONE	0.5-0.55
GLYCERYL STEARATE SE	GLYCERYL STEARATE SE	0.5-0.55
AQUA	AQUA	0.5-1
GLYCERIN	GLYCERIN	
DENDROBIUM NOBILE STEM EXTRACT	DENDROBIUM NOBILE STEM EXTRACT	
ALOE BARBADENSIS LEAF EXTRACT	ALOE BARBADENSIS LEAF EXTRACT	
SOPHORA FLAVESCENS ROOT EXTRACT	SOPHORA FLAVESCENS ROOT EXTRACT	
LYCIUM BARBARUM FRUIT EXTRACT	LYCIUM BARBARUM FRUIT EXTRACT	
ECHINACEA PURPUREA EXTRACT	ECHINACEA PURPUREA EXTRACT	
PHENOXYETHANOL	PHENOXYETHANOL	
ETHYLHEXYLGLYCERIN	ETHYLHEXYLGLYCERIN	
GLYCERIN	GLYCERIN	
AQUA	AQUA	0.5-1
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
CARBOMER	CARBOMER	
POLYSORBATE 20	POLYSORBATE 20	
PALMITOYL TRIPEPTIDE-1	PALMITOYL TRIPEPTIDE-1	
PALMITOYL TETRAPEPTIDE-7	PALMITOYL TETRAPEPTIDE-7	
AMMONIUM ACRYLOYLDIMETHYLTAURATE/VP COPOLYMER	AMMONIUM ACRYLOYLDIMETHYLTAURATE/VP COPOLYMER	0.26-0.36
BUTYROSPERMUM PARKII (SHEA) BUTTER	BUTYROSPERMUM PARKII (SHEA) BUTTER	0.2-0.3
CARNOSINE	CARNOSINE	0.2-0.3

STEARETH-21	STEARETH-21	0.15-0.165
ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	ACRYLATES/C10-30 ALKYL ACRYLATE CROSSPOLYMER	0.12-0.15
TOCOPHERYL ACETATE	TOCOPHERYL ACETATE	0.1-0.2
DISODIUM EDTA	DISODIUM EDTA	0.1-0.2
BISABOLOL	BISABOLOL	0.1-0.2
ZINGIBER OFFICINALE (GINGER) ROOT OIL	ZINGIBER OFFICINALE (GINGER) ROOT OIL	
ARGININE	ARGININE	0.08-0.088
XANTHAN GUM	XANTHAN GUM	0.05-0.055
SODIUM HYALURONATE	SODIUM HYALURONATE	0.03-0.033

Product: SQT Firming Rejuvenation Essence

Chemical Name	Trade Name	Concentration (%)
AQUA	AQUA	45.8-62.78
GLYCERIN	GLYCERIN	8-11
AQUA	AQUA	8-11
GLYCERIN	GLYCERIN	
GLYCERYL POLYMETHACRYLATE	GLYCERYL POLYMETHACRYLATE	
PROPYLENE GLYCOL	PROPYLENE GLYCOL	
PVM/MA COPOLYMER	PVM/MA COPOLYMER	
METHYLPARABEN	METHYLPARABEN	
PROPYLPARABEN	PROPYLPARABEN	
BUTYLENE GLYCOL	BUTYLENE GLYCOL	5-6
PROPANEDIOL	PROPANEDIOL	4-5
DIPEPTIDE DIAMINOBTYROYL BENZYLAMIDE DIACETATE	DIPEPTIDE DIAMINOBTYROYL BENZYLAMIDE DIACETATE	3-5
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
PENTYLENE GLYCOL	PENTYLENE GLYCOL	
AQUA	AQUA	
AQUA	AQUA	2.5-4
PROPANEDIOL	PROPANEDIOL	
FIBRONECTIN	FIBRONECTIN	
GLYCERIN	GLYCERIN	
DISODIUM PHOSPHATE	DISODIUM PHOSPHATE	
SODIUM PHOSPHATE	SODIUM PHOSPHATE	

PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN	PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN	2-4
GLYCERIN	GLYCERIN	2-3
AQUA	AQUA	
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
CARBOMER	CARBOMER	
POLYSORBATE 20	POLYSORBATE 20	
PALMITOYL TRIPEPTIDE-1	PALMITOYL TRIPEPTIDE-1	
PALMITOYL TETRAPEPTIDE-7	PALMITOYL TETRAPEPTIDE-7	0.8-1.0
CAPRYLHYDROXAMIC ACID	CAPRYLHYDROXAMIC ACID	
ETHYLHEXYLGLYCERIN	ETHYLHEXYLGLYCERIN	
1,2-HEXANEDIOL	1,2-HEXANEDIOL	
PROPYLENE GLYCOL	PROPYLENE GLYCOL	
AQUA	AQUA	0.5-0.8
BACILLUS/SOYBEAN FERMENT EXTRACT	BACILLUS/SOYBEAN FERMENT EXTRACT	
AQUA	AQUA	
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
FOLIC ACID	FOLIC ACID	
1,2-HEXANEDIOL	1,2-HEXANEDIOL	0.5-0.8
SODIUM HYALURONATE	SODIUM HYALURONATE	
LACTOBACILLUS/BEAN SEED EXTRACT/SODIUM GLUTAMATE FERMENT FILTRATE	LACTOBACILLUS/BEAN SEED EXTRACT/SODIUM GLUTAMATE FERMENT FILTRATE	0.1-0.3
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
AMMONIUM ACRYLOYLDIMETHYLTAURATE/VP COPOLYMER	AMMONIUM ACRYLOYLDIMETHYLTAURATE/VP COPOLYMER	0.2-0.4
CARNOSINE	CARNOSINE	0.15-0.3
HYDROLYZED SODIUM HYALURONATE	HYDROLYZED SODIUM HYALURONATE	0.1-0.3
SODIUM HYALURONATE	SODIUM HYALURONATE	0.1-0.3
CENTELLA ASIATICA EXTRACT	CENTELLA ASIATICA EXTRACT	0.1-0.3
BETA-GLUCAN	BETA-GLUCAN	0.05-0.2
XANTHAN GUM	XANTHAN GUM	0.05-0.2
HYDROLYZED SCLEROTIUM GUM	HYDROLYZED SCLEROTIUM GUM	0.05-0.2

CITRIC ACID	CITRIC ACID	0.03-0.1
SODIUM POLYGLUTAMATE	SODIUM POLYGLUTAMATE	0.02-0.1
SODIUM HYALURONATE	SODIUM HYALURONATE	0.02-0.1

Product: SQT Firming Repair Mask

Chemical Name	Trade Name	Concentration (%)
AQUA	AQUA	81.6-91.55
GLYCERIN	GLYCERIN	5-10
AQUA	AQUA	1-2
PROPANEDIOL	PROPANEDIOL	
FIBRONECTIN	FIBRONECTIN	
GLYCERIN	GLYCERIN	
DISODIUM PHOSPHATE	DISODIUM PHOSPHATE	
SODIUM PHOSPHATE	SODIUM PHOSPHATE	1-2
BETA-GLUCAN	BETA-GLUCAN	
AQUA	AQUA	
1,2-HEXANEDIOL	1,2-HEXANEDIOL	
HYDROXYACETOPHENONE	HYDROXYACETOPHENONE	
PANTHENOL	PANTHENOL	0.5-2
CAPRYLHYDROXAMIC ACID	CAPRYLHYDROXAMIC ACID	0.5-1
ETHYLHEXYLGLYCERIN	ETHYLHEXYLGLYCERIN	
1,2-HEXANEDIOL	1,2-HEXANEDIOL	
PROPYLENE GLYCOL	PROPYLENE GLYCOL	
AQUA	AQUA	
XANTHAN GUM	XANTHAN GUM	0.1-0.3
TREMELLA FUCIFORMIS SPOROCARP EXTRACT	TREMELLA FUCIFORMIS SPOROCARP EXTRACT	0.1-0.3
CARBOXYMETHYL CHITOSAN	CARBOXYMETHYL CHITOSAN	0.1-0.3
SODIUM POLYGLUTAMATE	SODIUM POLYGLUTAMATE	0.1-0.3
HYDROLYZED SODIUM HYALURONATE	HYDROLYZED SODIUM HYALURONATE	0.05-0.2

Product: SQT Firming Rejuvenation Cream

Chemical Name	Trade Name	Concentration (%)
AQUA	AQUA	40.72-54.15

GLYCERIN	GLYCERIN	5.0-5.5
CANDELILLA/JOJOBA/RICE BRAN POLYGLYCERYL-3 ESTERS	CANDELILLA/JOJOBA/ RICE BRAN POLYGLYCERYL-3 ESTERS	3.0-3.3
GLYCERYL STEARATE	GLYCERYL STEARATE	
CETEARYL ALCOHOL	CETEARYL ALCOHOL	
SODIUM STEAROYL LACTYLATE	SODIUM STEAROYL LACTYLATE	
PENTAERYTHRITYL TETRAETHYLHEXANOATE	PENTAERYTHRITYL TETRAETHYLHEXANOATE	3.0-3.3
PROPANEDIOL	PROPANEDIOL	3.0-3.3
AQUA	AQUA	2.5-3.5
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
PALMITOYL TRIPETIDE-8	PALMITOYL TRIPETIDE-8	
CETEARYL ALCOHOL	CETEARYL ALCOHOL	2.0-2.2
HYDROGENATED POLYISOBUTENE	HYDROGENATED POLYISOBUTENE	2.0-2.2
JOJOBA ESTERS	JOJOBA ESTERS	2.0-2.5
HELIANTHUS ANNUUS (SUNFLOWER) SEED WAX	HELIANTHUS ANNUUS (SUNFLOWER) SEED WAX	
ACACIA DECURRENS FLOWER WAX	ACACIA DECURRENS FLOWER WAX	
POLYGLYCERIN-3	POLYGLYCERIN-3	2.0-2.5
CYCLOPENTASILOXANE	CYCLOPENTASILOXANE	
CYCLOHEXASILOXANE	CYCLOHEXASILOXANE	2.0-2.2
TREHALOSE	TREHALOSE	2.0-2.2
PENTYLENE GLYCOL	PENTYLENE GLYCOL	2.0-2.2
BIFIDA FERMENT LYSATE	BIFIDA FERMENT LYSATE	2.0-3.0
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
GLYCERIN	GLYCERIN	2.0-3.0
AQUA	AQUA	
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
CARBOMER	CARBOMER	
POLYSORBATE 20	POLYSORBATE 20	
PALMITOYL TRIPETIDE-1	PALMITOYL TRIPETIDE-1	
PALMITOYL TETRAPEPTIDE-7	PALMITOYL TETRAPEPTIDE-7	
AQUA	AQUA	1.5-2.5
BIOSACCHARIDE GUM-1	BIOSACCHARIDE GUM-1	

PHENOXYETHANOL	PHENOXYETHANOL	
AQUA	AQUA	2.0-3.0
PROPANEDIOL	PROPANEDIOL	
FIBRONECTIN	FIBRONECTIN	
GLYCERIN	GLYCERIN	
DISODIUM PHOSPHATE	DISODIUM PHOSPHATE	
SODIUM PHOSPHATE	SODIUM PHOSPHATE	
DIMETHICONE	DIMETHICONE	1.5-1.75
BUTYROSPERMUM PARKII (SHEA) BUTTER	BUTYROSPERMUM PARKII (SHEA) BUTTER	1.0-1.5
SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL	SIMMONDSIA CHINENSIS (JOJOBA) SEED OIL	1.0-1.5
CYCLOPENTASILOXANE	CYCLOPENTASILOXANE	1.0-1.1
POLYETHYLENE	POLYETHYLENE	
DIMETHICONE	DIMETHICONE	
PEG/PPG-20/15 DIMETHICONE	PEG/PPG-20/15 DIMETHICONE	
PHENYL METHICONE	PHENYL METHICONE	
AQUA	AQUA	1.0-2.0
SACCHAROMYCES/SOY PROTEIN FERMENT	SACCHAROMYCES/SOY PROTEIN FERMENT	
SERINE	SERINE	
FUCOSE	FUCOSE	
GLYCOSAMINOGLYCANS	GLYCOSAMINOGLYCANS	
CAPRYLHYDROXAMIC ACID	CAPRYLHYDROXAMIC ACID	
PROPANEDIOL	PROPANEDIOL	
1,2-HEXANEDIOL	1,2-HEXANEDIOL	
PHENOXYETHANOL	PHENOXYETHANOL	0.5-1.0
HYDROXYETHYL ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER	HYDROXYETHYL ACRYLATE/SODIUM ACRYLOYLDIMETHYL TAURATE COPOLYMER	
POLYSORBATE 60	POLYSORBATE 60	
SORBITAN ISOSTEARATE	SORBITAN ISOSTEARATE	
AQUA	AQUA	0.8-0.88
GLYCERYL CAPRYLATE	GLYCERYL CAPRYLATE	
CAPRYLHYDROXAMIC ACID	CAPRYLHYDROXAMIC ACID	
HYDROXYACETOPHENONE	HYDROXYACETOPHENONE	

BUTYLENE GLYCOL	BUTYLENE GLYCOL	
AQUA	AQUA	
PHYTOSTERYL/OCTYLD ODECYL LAUROYL GLUTAMATE	PHYTOSTERYL/OCTYL DODECYL LAUROYL GLUTAMATE	0.5-0.55
TOCOPHERYL ACETATE	TOCOPHERYL ACETATE	0.5-1.0
GLYCERYLAMIDOETHYL METHACRYLATE/STEAR YL METHACRYLATE COPOLYMER	GLYCERYLAMIDOETHY L METHACRYLATE/STEA RYL METHACRYLATE COPOLYMER	0.5-1.0
GLYCERIN	GLYCERIN	
BUTYLENE GLYCOL	BUTYLENE GLYCOL	
LACTOBACILLUS/RICE FERMENT	LACTOBACILLUS/RICE FERMENT	0.5-1.0
MALTITOL	MALTITOL	
ARGININE	ARGININE	
SILICA	SILICA	0.5-1.0
ALLANTOIN	ALLANTOIN	0.15-0.2
CARNOSINE	CARNOSINE	0.15-0.2
SODIUM POLYGLUTAMATE	SODIUM POLYGLUTAMATE	0.1-0.2
BETA-GLUCAN	BETA-GLUCAN	0.05-0.1
SODIUM HYALURONATE	SODIUM HYALURONATE	0.05-0.1

1. Animal testing and toxicity studies:

The raw material(s) used in the product and the finish product itself have not been subjected to any animals testing in order to meet the requirements of EU Cosmetic Regulation (EC) No 1223/2009.

2. Undesirable effects (UEs) and serious undesirable effects (SUEs)

The product or, where relevant, other cosmetic products have not been involved to any undesirable effects or serious undesirable effects as defined in the Article 21 of Regulation (EC) No 1223/2009.

Undesirable effects (UEs): "adverse reactions for human health attributable to the normal or reasonably foreseeable use of a cosmetic product."

Serious Undesirable effects (SUEs): "undesirable effects which result in temporary or permanent functional incapacity, disability, hospitalisation, congenital anomalies or an immediate vital risk or death."

I hereby confirmed that all the above information is complete and accurate and agree to immediately notify in writing of any changes to the above details.

Name: Qin Hao

Position: CEO

Date: Sept 29,2022

Company Address: Building E7, Lugu Yuyuan, No.27, Wenxuan Road,
High-Tech Development Zone, Changsha, Hunan, China, 410000

Appendix 6- Fragrance

This formulation does not contain a synthetic fragrance and therefore a fragrance safety evaluation as per IFRA code of practice is not available to this product.

Appendix 7- Heavy Metal Test Report of Cosmetic Product

See below report(s) if available

Test Report

Number: GZHH00472057

Applicant: Hunan Sunshine Bio-Tech Co., Ltd
Building E7, Lugu Yuyuan, No.27, Wenxuan Road, High-Tech Development Zone, Changsha, Hunan, China, 410000

Date: Nov 01, 2022

Sample Description:

One (1) style of submitted sample said to be :
Item Name : **SQT Anti-Aging Rejuvenation Set.**
Country of Origin : China.
Date Sample Received : Oct 20, 2022
Testing Period : Oct 20, 2022 to Nov 01, 2022

Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested component(s) of submitted sample(s)	The European Cosmetic Regulation (EC) No.1223/2009 Annex I Part A 3, Microbiological control criteria of the cosmetic products.	Pass
	With reference to the Notification of the German Federal Health Office Centre (BGA) up to 1996 on toxic elements analysis for cosmetics	Meet

Intertek GM Testing Service Zhuhai Co. Ltd.

Maggie Liu

Maggie Liu
Technical Supervisor
Healthcare and Beauty Products



Test Report

Number: GZHH00472057

Tests Conducted

- 1 Microbiological examination of non-sterile products : Microbial Enumeration Tests and tests for specified microorganisms of submitted sample

With reference to British Pharmacopoeia (2020), Appendix XVI B2 & B1 and European Pharmacopoeia 10.0 Edition, Chapter 2.6.12 & 2.6.13.

Test Item		Result		Limit
		(1)	(2)	
(I)	Total Aerobic Microbial Count (per g)	<10 CFU#	<10 CFU#	Category (B): (I) + (II) should be ≤1,000 CFU
(II)	Moulds and Yeasts Count (per g)	<10 CFU#	<10 CFU#	
(III)	<i>Escherichia coli</i> (per g)	Absence	Absence	Absence
(IV)	<i>Pseudomonas aeruginosa</i> (per g)	Absence	Absence	Absence
(V)	<i>Staphylococcus aureus</i> (per g)	Absence	Absence	Absence
(VI)	<i>Candida albicans</i> (per g)	Absence	Absence	Absence
(VII)	Bile-Tolerant Gram-Negative Bacteria (per g)	Absence	Absence	-
(VIII)	<i>Salmonella sp.</i> (per 10g)	Absence	Absence	-
(IX)	<i>Clostridia sp.</i> (per g)	Absence	Absence	-

Test Item		Result		Limit
		(3)	(4)	
(I)	Total Aerobic Microbial Count (per g)	<10 CFU#	<10 CFU#	Category (B): (I) + (II) should be ≤1,000 CFU
(II)	Moulds and Yeasts Count (per g)	<10 CFU#	<10 CFU#	
(III)	<i>Escherichia coli</i> (per g)	Absence	Absence	Absence
(IV)	<i>Pseudomonas aeruginosa</i> (per g)	Absence	Absence	Absence
(V)	<i>Staphylococcus aureus</i> (per g)	Absence	Absence	Absence
(VI)	<i>Candida albicans</i> (per g)	Absence	Absence	Absence
(VII)	Bile-Tolerant Gram-Negative Bacteria (per g)	Absence	Absence	-
(VIII)	<i>Salmonella sp.</i> (per 10g)	Absence	Absence	-
(IX)	<i>Clostridia sp.</i> (per g)	Absence	Absence	-



Test Report

Number: GZHH00472057

Tests Conducted

Test component(s):

- (1) White cream (4-1)
- (2) Yellow liquid (4-2)
- (3) Transparent liquid attached to white non-woven cloth (4-3)
- (4) White cream (4-4)

Remark :

- # = No colony was detected at the one-tenth dilution of the sample
- CFU = Colony Forming Unit
- < = Less than
- ≤ = Less than or equal to

The limit for test item (I) and (II) is with reference to the notes of guidelines on microbiological quality of the finished cosmetic products adopted by Scientific Committee on Consumer Safety (SCCS, 11th Rev., 2021) of the European Commission, Microbiological Quantitative Limits for Category B Cosmetic Products.

Category A: Cosmetic products specifically intended for children under 3 years, eye area and mucous membranes.

Category B: Other cosmetic products.

Sample received condition: sample (1)、(2)、(4) in closed bottle, sample (3) in unopened container.



Test Report

Number: GZHH00472057

Tests Conducted

2 Toxic Element Analysis (Cosmetics)

Acid digestion for Antimony (Sb), Arsenic (As), Cadmium (Cd), Lead (Pb) and Mercury (Hg) and perspiration simulant extraction for Soluble Nickel (Ni), follow by Inductively Coupled Plasma Mass Spectrometry analysis.

Element	Result (ppm)				Reporting Limit (ppm)	Limit# (ppm)
	Test component(s)					
	(1)	(2)	(3)	(4)		
Total Antimony (Sb)	ND	ND	ND	ND	0.1	10
Total Arsenic (As)	ND	ND	ND	ND	0.1	5
Total Cadmium (Cd)	ND	ND	ND	ND	0.1	5
Total Lead (Pb)	ND	ND	ND	ND	0.1	20
Total Mercury (Hg)	ND	ND	ND	ND	0.1	1
Soluble Nickel (Ni)	ND	ND	ND	ND	0.1	10

Test component(s):

- (1) White cream (4-1)
- (2) Yellow liquid (4-2)
- (3) Transparent liquid attached to white non-woven cloth (4-3)
- (4) White cream (4-4)

Remark :

ppm = parts per million = mg/kg

= The limit is with reference to the Notification of the German Federal Health Office (BGA), Pg 28, No. 7, July 1985 and No. 7/1992 and No. 4/1996 for cosmetics

ND = Not detected (less than reporting limit)

End of report

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Appendix 8- Human Volunteers Studies

1. Human volunteers study for the cosmetic product

No existing studies from human volunteers for finish product were provided

2. Human volunteers study for raw material

No existing studies from human volunteers for raw material(s) were provided

Appendix 9- Assessor's credentials

Leshuai Zhang, Toxicologist, Intertek China
Professor, PhD, DABT, ERT, UKRT

Education

Ph. D., Comparative Biomedical Sciences **Aug 2005 – May 2010**
Center for Chemical Toxicology Research and Pharmacokinetics, College of Veterinary Medicine,
North Carolina State University, Raleigh, North Carolina, USA

M. S., Molecular Biology **Sept 2002 – June 2005**
Department of applied Biology, East China University of Science and Technology &
Institute of Biochemistry and Cell Biology, Shanghai Institutes for Biological Sciences, Chinese
Academy of Science, Shanghai, China

B. S., Biochemistry **Sept 1998 – June 2002**
Department of applied Biology, East China University of Science and Technology

Certificate

ERT, Europe Registered Toxicologist **Aug 2018**

UKRT, UK Registered Toxicologist **Aug 2018**

DABT, Diplomate of American Board of Toxicology **Oct 2015**

Career Experience

Mar 2021 – Present, Toxicologist, Intertek China

February 2014 – Present, Professor in School of Radiation Medicine and Protection (SRMP),
Soochow University, Suzhou, Jiangsu Province, China

Research Interests: Polysaccharides from traditional medical herbs and tumor immunotherapy;
Bismuth compounds and nephrotoxicity; Hepatotoxicity and phospholipidosis by liver spheroids (3D
cell culture); Microcontact printing technology and cell backpack based drug delivery system

November 2012 – January 2014, Research Assistant Professor in the Nanotechnology Innovation
Center of Kansas State University.

Research Interests: Food safety (toxicity) on primary hepatocytes; Nanocorona and Nanotoxicology
studies

June 2010 – June 2012, Research Fellow in the Division for Drug Safety Research, Center for
Drug Evaluation and Research, Food and Drug Administration, supported by the Oak Ridge
Institute of Science and Education Fellowship Program. Under the supervision of Dr. Rodney
Rouse and Dr. Thomas Colatsky.

Research Description: Drug induced pancreatitis in vivo, biomarker evaluation and toxicity
mechanisms; Nanoparticle toxicity prediction in vitro; Calcium signaling in drug induced
cardiovascular injury

Aug 2005 – June 2010, Graduate Research Assistant, Center for Chemical Toxicology Research
and Pharmacokinetics, Department of Clinical Sciences, College of Veterinary Medicine, North
Carolina State University, Raleigh, North Carolina. Under the supervision of Nancy A. Monteiro-
Riviere.

Research Description: Quantum dot nanoparticle penetration and absorption in skin; Cytotoxicity of
nanoparticles via MTT/Cell Titer Blue/Cell Titer 96AQ/LDH assays, live/dead fluorescence markers
and apoptosis/necrosis markers, inflammatory factors release and reactive oxygen species (ROS);
Nanoparticle cellular uptake and mechanisms by human epidermal keratinocytes, dendritic cells
and mesenchymal stem cell derived adipose cells

Publications Citation > 1500

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10. **Zhang L***, Monteiro-Riviere NA Toxicity Assessment of Six Titanium Dioxide Nanoparticles in Human Epidermal Keratinocytes. 2018. Cutaneous and Ocular Toxicology. 2018 Sep 28:1-29. doi: 10.1080/15569527.2018.1527848.
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Zhang L, Z Xuan, Xing T : *Experimental Techniques for Radiation Nanomedicine and Nanotoxicology*, 2016. ISBN 978-7-5605-9318-0.

Monteiro-Riviere NA, **Zhang LW**. 2008. Assessment of quantum dot penetration into skin in different species under different mechanical actions. In Linkov I, Steevens J (eds.): *Nanomaterials: Risks and Benefits*. Springer, Dordrecht, Netherlands, pp. 41-52.

Journal Reviewers

Journal Name	IF	Review #
Biomaterials	10.3	2
ACS Applied Materials & Interfaces	8.5	9
Nanoscale	7	3
Particle and Fibre Toxicology	6.6	2
Wiley Interdisciplinary Reviews-Nanomedicine and Nanobiotechnology	6.1	8
Carbohydrate Polymer	6	4
Nanotoxicology	6	1
Biomacromolecules	5.7	1
Nanomedicine-Nanotechnology Biology and Medicine	5.6	8
Science of the Total Environment	5.6	1
International Journal of Biological Macromolecules	4.8	7
ACS Biomaterials Science & Engineering	4.5	1
International Journal of Nanomedicine	4.5	23
Scientific Reports	4	3
Toxicological Sciences	3.6	2
Metallomics	3.6	1
Toxicology	3.5	6
Toxicology letters	3.5	22
Cellular Immunology	3.3	3
Toxicology in vitro	3.1	31
Journal of Applied Toxicology	3.1	1
Archives of Pharmacal Research	2.5	1
Cancer Management and Research	2.2	1
Frontiers in Veterinary Science	2	1
IET Nanobiotechnology	1.9	1
Toxicology and Industrial Health	1.6	20
Toxicologic Pathology	1.4	3
Animal Biotechnology	1.3	1
International Journal of Toxicology	1.2	16
Journal of Nanoscience and Nanotechnology	1.1	1
Cutaneous and Ocular Toxicology	1.1	2
Nanoimpact		3
Nanotoday		2
Nanoscale Advances		1
Applied In Vitro Toxicology		1
Theranostics		1
Total		195

Funding Support

1. Hepatotoxicity of copper sulfide nanoparticles. 31971319, 2020/01-2023/12
2. Bismuth nanomaterials and nephrotoxicity, 31771104, National Natural Science Foundation of China, 2018/01-2021/12
3. Influence of Graphene oxide Derivatives on phospholipidosis, 81401511, National Natural Science Foundation of China, 2015/01- 2017/12

4. Immunoregulatory function on herbal polysaccharide on dendritic cells, 81373950, National Natural Science Foundation of China, 2014/01 - 2017/12

Awards and Scholarships

1. Outstanding young scholars awarded by Chinese Society of Toxicology (2020)
2. Battelle Memorial Research Award of the Dermal Toxicology Specialty Section at the 48th Annual Meeting of the National Society of Toxicology (SOT), Baltimore, MD, 2009. Research Proposal "Inhibition of multi-walled carbon nanotubes in human epidermal keratinocytes by lectin or niacinamide", \$2500.
3. First place award for the MB Research Award, at the 47th Annual Meeting of the National Society of Toxicology (SOT), Seattle, Washington, 2008.
4. Third place for best poster at the In Vitro and Alternative Methods Specialty Section at the 47th Annual Meeting of the National Society of Toxicology (SOT), Seattle, Washington, 2008.
5. Toxicology and Applied Pharmacology, Certificate of Recognition for one of Elsevier's Top 10 Cited Articles on Scopus 2007-2008.

Professional Associations and Activities

- 2021 – Present Associate Editor, Journal of Nanobiotechnology
- 2016 – Present Officer, Nanotoxicology Specialty Section, Chinese Society of Toxicology
- 2012 – Present Associate Editor, Toxicology and Industrial Health
- 2012 – 2015 Education Committee Officer, US Society of Toxicology
- 2011 – 2012 Officer, Nanotoxicology Specialty Section, US Society of Toxicology
- 2009 – Present Full membership, Sigma Xi Scientific Research Society
- 2006 – Present Membership in US Society of Toxicology

Teaching and Training Experiences

- 2016.9 – Present, specialized optional course for overseas undergraduates "Skin Toxicology and Chemicals"
- 2017.9 – Present, General Course "Photography – Remarkableness from ordinary lives"



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TOXICOLOGIST**

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UK

Register of Toxicology


Signature

June 26, 2018

Date

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Basle, SWITZERLAND

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Leshuai Zhang

has been registered with the

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**Royal Society of Biology
and
British Toxicology Society**

for the period

21st May 2018 to 20th May 2023

Lesley Stanley

**Dr Lesley Stanley, ERT
(Panel Chair)**



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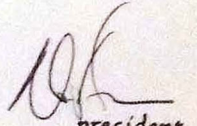
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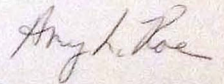
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October 29, 2015


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personal capacity

August 2019

Dr. Leshuai Zhang
Guoliyuan Xincun 76-202
Nantong, 226001
China

Dear Dr. Zhang:

This letter is to inform you of the status of your recertification application.

Your application is in order and you passed the Literature Review assessment. Therefore, nothing further is required. In December of 2020 (**NOT 2019**) you will receive a letter and sticker affirming your recertification for five years.

Please note, Diplomates are strongly encouraged to record activities related to recertification on an ongoing basis via the ABT website.

If you have any questions, please contact the ABT office.

Sincerely,

Susie Masten
Executive Director