# CAMPO HYDRIN 1, CAMPO HYDRIN 2 NOVEL ACTIVE INGREDIENTS FOR SUBSTANTIVE NEW YOUNG SKINCOLLAGEN BUILD-UP FORMATION AND COLLAGEN REPLENISHING MECHANISM (ISOLATED FROM SONGYI MUSHROOM)





### CAMPO RESEARCH PTE LTD

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CAMPO® Multi-Purpose Cosmetic Base Chemicals & Active Ingredients CAMPO® Novel Functional Active Cosmetic Ingredient & Raw Materials

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Campo Hydrins I & Hydrins II

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### IMPORTANT NOTICE

Specifications may change without prior notice. Information contained in this technical literature is believed to be accurate and is offered in good faith for the benefit of the customer. The company, however, cannot assume any liability or risk involved in the use of its natural products or their derivatives, since the conditions of use are beyond our control. Statements concerning the possible use are not intended as recommendations to use our products in the infringement of any patent. We make no warranty of any kind; expressed or implied, other than that the material conforms to the applicable standard specifications.

Ask about our Herbal Natural Products Chemistry Consultancy Services – Product Registration EEC/UK New Drug Development (NDA-US); Quasi-Drug Topicals (MOHW\_Japan); Development of Standards, Analysis & Profiles of Phytochemicals; Literature searches, Cultivation of Medicinal Plants, Clinical-Trials, Development of new uses for Phytochemicals and Extracts; Contract Research and Development Work in Natural Products for Novel Drugs, New Cosmetic Active Ingredients for Active Topica/OTC Cosmetic with functionality and Consumer-perceivable immediate-results, New Food Ingredients for Nutraceuticals & Functional Foods.



## **Campo Research Product Literature**

# CAMPO TRUE HUMAN SKIN IDENTICAL SOLUBLE HYDRINS II (SONGYI MUSHROOM ISOLATE)

### What is Hydrin I and II (ex-Songyi mushroom isolate)?

orium layer of the human skin (i.e. the dermis) contains collagen which is the principal protein constituent of the connective tissues, skin, tendon and bone. The corium layer, for example consists of 90 to 95% collagen, on dry basis; and the important pre-cursors and their functional catalysis for the water-electrolyte regulation, water-balance activity and hydro-osmotic activity are peptides - amino acid residues cross-linked to vasotocin are known as Hydrins - a sub-micro-molecule.

**Hydrins** are also known to exists in other kingdoms such as plant kingdom - succulent vegetables, mushrooms and plants, and in animal kingdom - amphibians, etc.

Hydrins I forms the basis of the skin's acid mantle and Hydrins II forms the basis of moisture-barrier of the skin's corium layer. Both Hydrins I and II are uniquely involved with the replenishing build-up of new collagen formation (conversion of procollagen to collagen), maintenance of collagen, maintenance of the optimal healthy skin conditions and skin-healing.

Cross-linked vasotocin (a neuro peptide) which is a messenger chemical from the pituitary glands to the skin with instruction to form Hydrins - a small penetrative molecule on contact with dermis and epidermis to replace loss (aging adults) or form new Hydrins (as in young adults).

A spontaneous function of formation/build-up of new collagen 9 as structural links) takes place when new Hydrins are formed.

This thereby results in better skin elasticity and firmness of the skin In-vitro studies have shown neutral salt soluble and/or alkaline soluble collagen fibers and acid soluble collagen may be an intermediate phase in the **Hydrins based formation/build-up**. These **formation/build-up** contain collagen in its monomeric form (tropocollagen) which structurally consists of three helical polypeptide chains wound round each other to form a coil. In in-vitro assays, Hydrins assisted/formed tropocollagen behaves as a rigid rod with molecular weight of approximately 350,000 a

diameter of 14°A and a length of 3,000°A irrespective of its source

( human, animal, or plant ).

Optical rotation, viscosity and ultra-centrifugation studies have demonstrated that **Campo Hydrins** assisted collagen **formation / build-up** possess the characteristics of tropocollagen with high viscosity, structural tensile strength and high optical rotation values of human skin **collagen**, thereby augmenting skin (skin augmentation).

**Hydrins - (small penetrative molecules) assisted collagen formation/ build-up** produces a pronounced and immediate effects when Hydrins included in skin care compositions, leaving the skin feeling smooth and velvety. The **Hydrins based replenished collagen build-up** is complex triple helix structure gives it high moisture retention properties. And greatly increased the skin elasticity and firmess.

Hydrins on its own acts to impart lasting moisturization and a silk-smooth feel; and acts to provides protective colloidal structural firmness and as a barrier against water-loss. Campo Hydrins are designed to be replacement of non-functional collagen macromolecules in a topical cosmetic formulation as the collagen are of large structure and do not penetrate the skin to provide any benefits from within the skin in augmenting the skin-firmness.

**Hydrins** acts as a reservoir, improving elasticity and combating dry flaky skin conditions.

**Campo Hydrins** are originally designed and sold exclusively for a major cosmetic brand in Japan (1994) and is the novel mushroom-derived non-animal replacement for **Bovine Serum Albumins** (**B.S.A**) (Comparisons secondary screening evaluation assays and in-vitro screening evaluation available on request.)

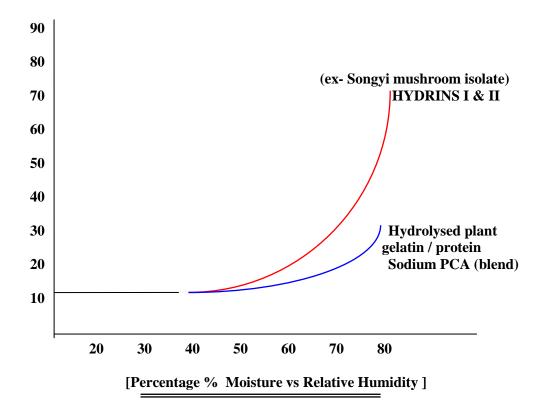


(( <u>Arg8;Gly 10;</u>) - <u>Vasotocin</u>) <u>H-Cys - Tyr - Ile - Gln - Asn - Cys - Pro - Arg - Gly - Gly - Lys - Arg - OH</u>

### Characteristic

### **Moisture retention**

The following graph illustrates the water retention properties of Hydrins I & II, compared with a typical hydrolysed plant gelatin / protein and sodium PCA combination blend.



**Campo Hydrins** are novel entities solubilised in purified water and stabilised with natural hydroxy-ceramides to easy formulating procedures and for formulating a highly immediately – consumer perceivable cosmetic skin-moisturizing formulations.

### **Method of Mfg.:** Isolation of songyi mushroom

### **CAMPO HYDRINS I**

pH (20°C) (100% Concentrate) 5.0 – 7.8 Dry weight 55.0 – 70.5 % Specific gravity 1.010 1.300 Refractive index 1.200 – 1.450

Color Turbid cloudy transparent

to clear colorless

Appearance Liquid solution

### **CAMPO HYDRINS II**

pH (20°C) (100% Concentrate) 4.5 – 6.5 Dry weight 55 – 70.5 % Specific gravity 1.000 1.200 Refractive index 1.200 – 1.450

Color Turbid cloudy transparent

to clear colorless

Appearance Liquid solution

### Product Formulations – application dosages:

Moisturizers	5 - 50%
Wrinkle cream	5 - 50%
Shampoos	3 - 40%
Eye creams	3 - 40%

# FORMULATION GUIDELINES

Moisturizing Cream	51% 5% 6% 5% 5%	Water Glycerol Hydrin 2 Tretonin CG Ceramide oil
	4%	Propylene glycol
	5%	Cetylic alcohol
	15%	Hydrin 1
	1%	Preservative
	<1%	Alpha-Ceramidein
	<1%	Fragrance & Color
	<1%	Triethanolamine to adjust pH 7
Wrinkle Cream	52.5%	Water
	7%	Glycerol
	5%	Tretonin CG
	5%	Hydrin 2
	5%	Propylene glycol
	5%	Cetylic Alcohol
	3%	Ceramide oil
	15%	Hydrin 1
	1%	Preservative
	<1%	Fragrance
	<1%	Triethanolamine to adjust pH 7
Eye Cream	60%	Water
•	5%	Propylene glycol
	15%	Hydrins 2
	8%	Hydrins 1
	10%	Alpha-Ceramidein
	<1%	Fragrance & Color
	<1%	Triethanolamine to adjust pH 7

Carbopol compounds or Campo Camigel 1 or 2 can be used to increase the viscosity (to make more viscous products) of the above formulations.

Campo Research, Singapore cGMP Mfg Labs Div.

### CAMPO RESEARCH Pte Ltd TECHNICAL SPECIFICATION

PRODUCT Name (Campo Research)	CAMPO HYDRINS 1
Other Trade Names (Campo Research)	TRUE HUMAN SKIN IDENTICAL TRANSEPIDERMAL WATER
	BALANCE FACTORS
CTFA TRADE NAME	Delymentide
CIFA IRADE NAME	Polypeptide
Existing CTFA/INCI Name	Tricholoma Matsutake Extract
	Hydrolyzed Collagen
	Water
Chinese Translation	松口蘑(TRICHOLOMA MATSUTAKE)提取物
	水解胶原 (HYDROLYZED COLLAGEN)
	水 (WATER /AQUA)
CAMPO PRODUCT #	96.062/A
HS Code:	1302.19.0000
CTFA Monograph ID:	18255 – Tricholoma Matsutake Extract
	1246 – Hydrolyzed Collagen
	9423 – Water/Aqua
CAS#	N/A – Tricholoma Matsutake Extract
CAS# EU	N/A (EU) – Tricholoma Matsutake Extract
	73049-73-7 / 92113-31-0 — Hydrolyzed Collagen
	92113-31-0 / 73049-73-7 (EU) – Hydrolyzed Collagen
	7732-18-5 – Water (Aqua)
EINECS Number and Name	N/A – Tricholoma Matsutake Extract
EINECS# EU	N/A (EU) – Tricholoma Matsutake Extract
	N/A – Hydrolyzed Collagen
	295-635-5 (EU) – Hydrolyzed Collagen 231-791-2 – Aqua (Water)
	251-791-2 - Aqua (w ater)
EINECS Number and Name	Tricholoma Matsutake Extract
EINECS# EU	http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction
European Commission–Health & Consumer Cosmetics–Cosing	=search.details_v2&id=59810 Tricholoma Matsutake Extract – N/A (EU)
Cosmetics Cosmig	Thenorona Matsutake Extract 1971 (EC)
	Hydrolyzed Collagen
	http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction
	=search.details_v2&id=76560 Hydrolyzed Collagen – 295-635-5 (EU)
	Try drosty 25d Collagon 255 055 5 (EO)
	Aqua (Water)
	http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction
	<u>=search.details v2&amp;id=31959</u> Aqua – 231-791-2 (EU)
BATCH/LOT #	See COA Batch Lot
SPECIES	Tricholoma matsutake singer
	Syn: Tricholoma Matsutake Extract
PARTS USED	Whole mushroom
RAW MATERIAL - ORIGIN CONCENTRATION	JAPAN
COMMENTS	A Quality Management System, compliant to the International
	Standard ISO 9001, was used to manufacture and test this material.
	*Please take note that all specifications are liable to changes

### without prior notice.

Specification Parameter Analysis	Specification Range	Results	<u>Methods</u>
Physical Form	Liquid	Conforms	Visual
Colour	Turbid cloudy transparent	Conforms	Visual
	to clear colorless		
Odour	Faint characteristics	Conforms	Olfactory
Specific Gravity(20deg.C)	1.010 - 1.300	See COA	USP XXIX/Paar,DMA35
Refractive Index(20deg.C)	1.200 - 1.450	See COA	USP XXIX/DGF IV C (52)
pH(20°C) (100% Concentrate)	5.00 - 7.80	See COA	USP XXIX/DGF H III (92)
Carrier Menstrual (Vehicle)			
Water	40.0 - 47.0%	See COA	-
Propylene Glycol	N/A	See COA	
Dry Weight	55.0 - 70.5%	See COA	
Saponification Value	-	=	-
Viscosity	-	=	-
Water Solubility	-	Conforms	-
Dry Residue (160deg.C/ 2hrs)	53 - 60%	See COA	Mettler 16J
Preservation	None	Conforms	-
Pesticide Content	None	Conforms	Pflanzaniaschuttal 1989
Total Germs	<100 Cfu/ml - Non-	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
	Pathogenic		
Total Yeast/Mold	< 100 cfu/ ml	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Heavy Metals(Total)As,Pb,Hg	< 0.005 ppm	Conforms	USP XXIX/Ph.Eur.2.6.12(97)

CAMPO RESEARCH Pte. Ltd, SINGAPORE
CAMPO RESEARCH USA, INC SAN DEIGO CA 92111, & Manhattan, New York City, USA
CAMPO RESEARCH s.r.o., Brno, Czech Republic
CAMPO RESEARCH Pvt. Ltd, CHENNAI, INDIA
CAMPO RESEARCH CANADA LTD, TORONTO, CANADA

MATERIAL SAFETY & CONSUMER SAFETY TESTING LABS.
DIV. OF JTC KAMPOYAKI SINGAPORE
EMERGENCY MATERIAL SAFETY / ACCIDENTAL RELEASE CENTER Contact:

Emergency Tel.no: +(65)-63833202/63833631(24hours) /63228551/63228503 Emergency Fax No: +(65)-63833632(24hours),63824680, 63228558 EMAIL: msds911@campo-research.com

**CAMPO HYDRINS 1** ©.

"(SAFETY DATA SHEET – compliant to GHS)"
CONFIRMS TO EC DIRECTIVE 91/155/EEC, EC REGULATION
NO#1272/2008, AMENDED EC REGULATION NO#790/2009 and Complies to
The EU Cosmetic Products Regulation (Regulation (EC) No 1223/2009) effective
on July 2013., and to EU Commission Regulation No.358/2014/9 of 9<sup>th</sup> April 2014
amending Annexes II and V, to EU Regulation No No.1223/2009 of The
European Parliament and of The Council on Cosmetic products, (Effective Date
31<sup>st</sup> October 2014) AND to US DEPT.OF LABOR-Occupational Safety & Health
Admin directives and compliant to Globally Harmonized System of
Classification and Labeling of Chemicals (hereinafter referred to as "the
GHS")., and Complies and Confirms to the Requirements of State of California
Proposition 65.

A Quality Management System, compliant to the International Standard ISO 9001, was used to manufacture and test this material.

http://www.osha.gov/dsg/hazcom/ghs.html

http://www.unece.org/trans/danger/publi/ghs/ghs\_welcome\_e.html

http://www.hc-sc.gc.ca/ahc-asc/intactiv/ghs-sgh/index-eng.php

ary 10th 1992-Reviewer -
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Dr Balasubramaniam PhD

DATE OF LATEST REVISION Jan. 19th 1997- Rev'wer-

Dr Fergus Jes .G. Velasquez Bsc. Med Tech, MD

Mr Jimmy Kee, 30<sup>th</sup> June 2003 Mr Teo SH 5<sup>th</sup> Jan 2004

Balasubramaniam M,PhD 21st August 2007

Mr Joshua Teo, 21 Jan 2011 February 5<sup>th</sup> 2013 – Reviewer – Dr Balasubramaniam M, PhD

23<sup>rd</sup> March 2014 - Joshua Teo, Balasubramaniam M

PhD & Oksana Nemchenko MD

12<sup>th</sup> February 2015 - Joshua Teo BSc. Chem,

Balasubramaniam M PhD & Oksana Nemchenko MD

15th May 2016 - Joshua Teo BSc. Chem,

Balasubramaniam M PhD & Oksana Nemchenko MD

### PRODUCT AND COMPANY IDENTIFICATION

COMMERCIAL NAME: CAMPO HYDRNS 1

OTHER TRADE NAME: TRUE HUMAN SKIN IDENTICAL TRANSEPIDERMAL

WATER BALANCE FACTORS

LATIN NAME: Tricholoma Matsutake Singer

CTFA ADOPTED NAME / INCI NAME: Tricholoma Matsutake Extract

Hydrolyzed Collagen

Chinese Translation 松口蘑(TRICHOLOMA MATSUTAKE)提取物

水解胶原 (HYDROLYZED COLLAGEN)

水 (WATER /AQUA)

INTERNATIONAL CHEMICAL

**IDENTIFICATION** 

(EC REGULATION NO#1272/2008 AMENDED NO#790/2009)and Compliant

to the GHS:

TRICHOLOMA MATSUTAKE EXTRACT

HYDROLYZED COLLAGEN

WATER (AQUA)

EPA (USA) GENERIC NAME: Mushroom Extract

MANUFACTURER: CAMPO RESEARCH PTE LTD

(cGMP MFG. FACILITIES): #05-02, HUDSON INDUSTRIAL BUILDING

No, 14, NEW INDUSTRIAL ROAD,

SINGAPORE 536203.

**EMERGENCY TELEPHONE NUMBERS:** (65)-63833631/(65)-63228503 (Singapore)

HAZARDS INDENTIFICATION

NOT CLASSIFIED AS DANGEROUS ACCORDING TO DIRECTIVE 67/548/EEC OR

ITS AMENDMENTS.

**DIVISION 1.6: NON-HAZARDOUS** 

NO HAZARD STATEMENT

HAZARD CLASS and CATEGORY CODE(s) PICTOGRAM: NONE

HAZARD STATEMENT CODE(s) (EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant to

the GHS

No GHS Pictogram (Totally Non-Hazardous) Division 1.6; NO HAZARD STATEMENT

**GHS CLASSIFICATION:** PICTOGRAM: NONE

This material is Non-hazardous according No GHS Pictogram (Totally Non-Hazardous)

To UN-GHS Criteria. Division 1.6: No Hazard Statement.

**GHS LABEL ELEMENTS:** No GHS Pictogram (Totally Non-Hazardous)

Division 1.6: No Hazard Statement.

COMPOSITION / INFORMATION ON

**INGREDIENTS** 

POLYPETIDE-AMINO ACID RESIDUES WITH

NATURAL SKIN-IDENTICAL

HYDROXYCERAMIDES SOLUBLISIED IN

**PURIFIED WATER** 

Amino acids; polypeptides; water

CTFA Monograph ID 18255 - Tricholoma Matsutake Extract

1246 - Hydrolyzed Collagen

9423 – Water/Aqua

CAS# N/A – Tricholoma Matsutake Extract CAS# EU N/A (EU) – Tricholoma Matsutake Extract

73049-73-7 / 92113-31-0 - Hydrolyzed Collagen 92113-31-0 / 73049-73-7 (EU) - Hydrolyzed Collagen

7732-18-5 – Water (Aqua)

92113-31-0 / 73049-73-7 - Hydrolyzed Collagen CAS NO# (CAS Name)

(EC REGULATION NO#1272/2008 AMENDED NO#790/2009)and compliant

to the GHS

7732-18-5 – Water (Aqua)

**EINECS Name and Number** N/A – Tricholoma Matsutake Extract

EINECS# EU N/A (EU) – Tricholoma Matsutake Extract

N/A – Hydrolyzed Collagen

295-635-5 (EU) - Hydrolyzed Collagen

231-791-2 – Aqua (Water)

**EINECS# (EINECS Name)** 295-635-5 - Hydrolyzed Collagen

(EC REGULATION NO#1272/2008 231-791-2 – Water (Aqua)

AMENDED NO#790/2009) and compliant to the GHS

**EINECS Name and Number** 

**EINECS# EU** 

European Commission-Health & Consumer

Cosmetics-Cosing

Tricholoma Matsutake Extract

http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?f

useaction=search.details v2&id=59810

Tricholoma Matsutake Extract – N/A (EU)

Hydrolyzed Collagen

http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?f

useaction=search.details v2&id=76560 Hydrolyzed Collagen – 295-635-5 (EU)

Aqua (Water)

http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?f

useaction=search.details\_v2&id=31959

Aqua – 231-791-2 (EU)

RISK PHRASES

SAFETY PHRASES 25-26 Not Mandatory

**GHS CLASSIFICATION: PICTOGRAM: NONE** 

This material is Non-hazardous according

To UN-GHS Criteria.

**GHS LABEL ELEMENTS:** No GHS Pictogram (Totally Non-Hazardous)

Division 1.6: No Hazard Statement.

FIRST AID MEASURES

EYE CONTACT: Wash with water or standard eye wash solution. Seek

medical advice, if irritation occur and persist.

Edible in small quantity (3-5 grams) with bland to bitter ORAL INGESTATION:

sweet after taste.

Wash with water or shower. SKIN CONTACT:

5 FIRE FIGHTING MEASURERS

NON-COMBUSTIBLE BUT PRESENTS NO

SPECIAL FIRE HAZARD.

**EXTINGUISHING MEDIA:** Treat as oil fire when store in HDPE drums with CO2, dry

foam or dry chemical.

PROTECTIVE EOUIPMENTS FOR FIGHTERS: Standard Equipments.

ACCIDENTAL RELEASE MEASURES

ABSORB ONTO AN INERT MATERIAL AND

SCRAPE UP. REMOVE RESIDUE BY SCRUBBING WITH HOT WATER OR

DETERGENT SOLUTION.

HANDLING AND STORAGE

STORE IN SEALED CONTAINERS UNDER NORMAL COOL, DRY WAREHOUSING

CONDITIONS.

EXPOSURE AND PERSONAL PROTECTION

IN ACCORDANCE WITH GOOD INDUSTRIAL

PRACTICE AND HANDLING USING STANDARD EYE PROTECTION.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Liquid

COLOUR: Turbid cloudy transparent to clear colorless

ODOUR: Characteristic - faint **BOILING POINT:** 100 - 105 deg. cent

MELTING POINT: VISCOSITY:

FLASH POINT: > 160°CAMPO deg. cent

FLAMMABILITY SOLID/GAS: N/A **AUTO FLAMMABILITY:** N/A

SPECIFIC REFRACTIVE: 1.200 - 1.450

**EXPLOSIVE PROPERTIES:** N/A pH: (100% Concentrate) 5.00 - 7.80**OXIDIZING PROPERTIES:** N/A VAPOUR PRESSURE: N/A

**DENSITY:** 1.010 - 1.300 WATER SOLUBILITY: Soluble

OTHER SOLUBILITY: In Most Cosmetic Solvents

**BULK DENSITY:** 

PARTITION COEFFICIENT: (OCTANOL/WATER) **EXPLOSIVE LIMITS:** STABILITY AND REACTIVITY THERMAL DECOMPOSITION: Stable under normal conditions of use. TOXICOLOGICAL DATA Animal Tests Last Done 1992, as requirements of the then EC DIRECTIVE 91/155/EEC LD50 > 3,679 MG/KG (Body Wt.) Rat ORAL: Essentially Non-Toxic and Edible in Small Quantity. DERMAL: Expected To Be Essentially Non Toxic. INHALATION: N/A 3,679 MG/KG (Body Wt.); CATEGORY 5 SPECIFIC CONCENTRATION LIMITS M-FACTORS Essentially Non-Toxic and Edible in Small Quantity. (EC REGULATION NO#1272/2008 AMENDED NO#790/2009) compliant to the GHS. TOXIC EFFECTS: Primarily Irritation Index (PII) = 0.0 (Non-Irritating -SKIN: Skintex ), Not A Primarily Irritant. Non-irritant / Non-sensitizer as per Repeated Patch Insult Test on 50 Human volunteers. Human Repeated Patch Test 48 hours: 50/50 completely non-irritating / non-erythema causing ingredient at 10% concentrate in water on 50 human volunteers EYE: Very Mild/Minimal - Not A Transient Conjunctival Irritant at 10% concentrate in water (Eyetex - Eyetex classification). Summarized toxicological data as shown here are formation bounded under Non-Disclosure Agreement with various clients as when these Toxicological Data were established or their exclusive uses **ECOLOGICAL INFORMATION** Expected to be ultimately Biodegradable **BIODEGRATION:** FISH TOXICITY: No Data **BACTERIAL & VIRAL TOXICITY:** Potentially very harmful to bacterial & viral WGK CLASS: microorganisms. WGK (Self Classification) DISPOSAL CONDITIONS DISPOSE OFF ACCORDING TO A RECOGNISED METHOD OF CHEMICAL WASTE DISPOSAL. TRANSPORT INFORMATION 14 UN NUMBER#: N/A UN NAME: Not Assigned IMDG CODE/CLASS: Not Hazardous IMDG CODE PAGE NO. N/A ICAO/IATA AIR CLASS: Non-Hazardous ICAO/IATA AIR CLASS PACKING GROUP: N/A RID/ADR CLASS: Non-Hazardous ADNR CLASS: Non-Hazardous LABELLING: (EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant to the GHS. PICTOGRAM SIGNAL WORD CODE(s): No GHS Pictograms (Totally Non-Hazardous) Division 1.6; No Hazard Statement **HAZARD STATEMENT CODE(s):** SUPPLEMENTARY HAZARD **STATEMENT CODE(s):** Similar Division 1.6; No Hazard Statement

15	REGULATORY INFORMATION	
	OCCUPATIONAL EXPOSURE LIMITS:	N/A
	U.S. State of California Proposition 65 INGREDIENTS Presence	None (Exempted from CA Prop 65 Register)
	EU Commission Regulation No.358/2014/9 of 9 <sup>th</sup> April 2014 amending Annexes II and V, to EU Regulation No No.1223/2009 of The European Parliament and of The Council on Cosmetic products	"Contains No Parabens and nor contains any Branched Chain Parabens".(EU Regulation No.358/2014/9 of 9th April 2014)
16	OTHER INFORMATION	
	USES AS A COSMETIC ADDITIVE	> 0.4 - 1.0 %
	This format and information is compiled by Kampoyaki	
	Novel Natural Product Chemistry/ Novel Drug Discovery	
	cGMP Labs Kobe, Japan;	*Please take note that all specifications are liable to
	for Campo Research, Kyoto and Singapore.	changes without prior notice.

**CAMPO HYDRINS 1** ©.

### CAMPO RESEARCH Pte Ltd TECHNICAL SPECIFICATION

PRODUCT Name (Campo Research) **CAMPO HYDRINS 2** Other Trade Names (Campo Research) TRUE HUMAN SKIN IDENTICAL TRANSEPIDERMAL WATER **BALANCE FACTORS** CTFA TRADE NAME Tricholoma Matsutake Extract Existing CTFA/INCI Name Hydrolyzed Collagen Water (Aqua) Chinese Translation 松口蘑(TRICHOLOMA MATSUTAKE)提取物 水解胶原 (HYDROLYZED COLLAGEN) 水 (WATER /AQUA) CAMPO PRODUCT # 96.062/B HS Code: 1302.19.0000 CTFA Monograph ID: 18255 – Tricholoma Matsutake Extract 1246 – Hydrolyzed Collagen 9423 - Water/Aqua CAS# N/A – Tricholoma Matsutake Extract CAS# EU N/A (EU) – Tricholoma Matsutake Extract 73049-73-7 / 92113-31-0 - Hydrolyzed Collagen 92113-31-0 / 73049-73-7 (EU) - Hydrolyzed Collagen 7732-18-5 – Water (Aqua) **EINECS Number and Name** N/A – Tricholoma Matsutake Extract EINECS# EU N/A (EU) – Tricholoma Matsutake Extract N/A – Hydrolyzed Collagen 295-635-5 (EU) - Hydrolyzed Collagen 231-791-2 – Aqua (Water) **EINECS Number and Name** Tricholoma Matsutake Extract EINECS# EU http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=searc European Commission-Health & Consumer h.details v2&id=59810 Cosmetics-Cosing Tricholoma Matsutake Extract – N/A (EU) Hydrolyzed Collagen http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=searc h.details v2&id=76560 Hydrolyzed Collagen – 295-635-5 (EU) Aqua (Water) http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=searc h.details\_v2&id=31959 Aqua – 231-791-2 (EU) BATCH/LOT# **See COA Batch Lot SPECIES** Tricholoma matsutake singer Syn: Tricholoma matsutake singer PARTS USED Mycelium - Whole mushroom **RAW MATERIAL - ORIGIN JAPAN** CONCENTRATION COMMENTS A Quality Management System, compliant to the International Standard ISO 9001, was used to manufacture and test this material. \*Please take note that all specifications are liable to changes without prior notice.

Specification Parameter Analysis	Specification Range	<u>Results</u>	<u>Methods</u>
Physical Form	Liquid	Conforms	Visual
Colour	Turbid cloudy transparent	Conforms	Visual
	to clear colorless		

Odour	Faint characteristics	Conforms	Olfactory
Specific Gravity(20deg.C)	1.000 - 1.200	See COA	USP XXIX/Paar,DMA35
Refractive Index(20deg.C)	1.200 - 1.450	See COA	USP XXIX/DGF IV C (52)
pH(20°C) (100% Concentrate)	4.50 - 6.50	See COA	USP XXIX/DGF H III (92)
Carrier Menstrual (Vehicle)			
Water	40.0 - 47.0%	See COA	-
Propylene Glycol	N/A	See COA	
Dry Weight	55.0 - 70.5%	See COA	
Saponification Value	-	=	-
Viscosity	-	=	-
Water Solubility	-	Conforms	-
Dry Residue (160deg.C/ 2hrs)	53 - 60%	See COA	Mettler 16J
Preservation	None	Conforms	-
Pesticide Content	None	Conforms	Pflanzaniaschuttal 1989
Total Germs	<100 Cfu/ml - Non-	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
	Pathogenic		
Total Yeast/Mold	< 100 cfu/ ml	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Heavy Metals(Total)As,Pb,Hg	< 0.005 ppm	Conforms	USP XXIX/Ph.Eur2.6.12(97)

CAMPO RESEARCH Pte. Ltd, SINGAPORE
CAMPO RESEARCH USA, INC SAN DEIGO CA 92111, & Manhattan, New York City, USA
CAMPO RESEARCH s.r.o., Brno, Czech Republic
CAMPO RESEARCH Pvt. Ltd, CHENNAI, INDIA

MATERIAL SAFETY & CONSUMER SAFETY TESTING LABS.
DIV. OF JTC KAMPOYAKI SINGAPORE

EMERGENCY MATERIAL SAFETY / ACCIDENTAL RELEASE CENTER Contact:

Emergency Tel.no: +(65)-63833202/63833631(24hours) 6/3228551/63228503

Emergency Fax No: +(65)-63833631(24hours), 63824680, 63228558

EMERGENCY EMAIL: msds911@campo-research.com

CAMPO HYDRINS 2 ©.

"(SAFETY DATA SHEET – compliant to GHS)" CONFIRMS TO EC DIRECTIVE 91/155/EEC, EC REGULATION NO#1272/2008, AMENDED EC REGULATION NO#790/2009 and Complies to The EU Cosmetic Products Regulation (Regulation (EC) No 1223/2009) effective on July 2013., and to EU Commission Regulation No.358/2014/9 of 9th April 2014 amending Annexes II and V, to EU Regulation No No.1223/2009 of The European Parliament and of The Council on Cosmetic products, (Effective Date 31<sup>st</sup> October 2014) AND to US DEPT.OF LABOR-Occupational Safety & Health Admin directives and compliant to Globally Harmonized System of Classification and Labeling of Chemicals (hereinafter referred to as "the GHS")., and Complies and Confirms to the Requirements of State of California Proposition 65.

A Quality Management System, compliant to the International Standard ISO 9001, was used to manufacture and test this material.

http://www.osha.gov/dsg/hazcom/ghs.html

http://www.unece.org/trans/danger/publi/ghs/ghs\_welcome\_e.html

http://www.hc-sc.gc.ca/ahc-asc/intactiv/ghs-sgh/index-eng.php

DATE OF FIRST ISSUE February 10th 1992-Reviewer -

Dr Balasubramaniam PhD

DATE OF LATEST REVISION Jan. 19th 1997- Rev'wer-

Dr Fergus Jes .G.Velasquez Bsc. Med Tech, MD Mr Jimmy Kee, 30<sup>th</sup> June 2003 Mr Teo SH 5<sup>th</sup> Jan 2004

Balasubramaniam M,PhD 21st August 2007

Mr Joshua Teo, 21 Jan 2011 February 5<sup>th</sup> 2013 – Reviewer – Dr Balasubramaniam M, PhD

23<sup>rd</sup> March 2014 - Joshua Teo, Balasubramaniam M

PhD & Oksana Nemchenko MD

12th February 2015 - Joshua Teo BSc. Chem, Balasubramaniam M PhD & Oksana Nemchenko

MD

15th May 2016 - Joshua Teo BSc. Chem,

Balasubramaniam M PhD & Oksana Nemchenko

MD

PRODUCT AND COMPANY IDENTIFICATION

**COMMERCIAL NAME: CAMPO HYDRNS 2** 

OTHER TRADE NAME: TRUE HUMAN SKIN IDENTICAL TRANSEPIDERMAL

> WATER BALANCE FACTORS Tricholoma Matsutake Singer

CTFA ADOPTED NAME / INCI NAME: Tricholoma Matsutake Extract

Hydrolyzed Collagen

Water (Aqua)

Chinese Translation 松口蘑(TRICHOLOMA MATSUTAKE)提取物

水解胶原 (HYDROLYZED COLLAGEN)

水 (WATER /AQUA)

INTERNATIONAL CHEMICAL IDENTIFICATION

(EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and Compliant

to the GHS:

LATIN NAME:

TRICHOLOMA MATSUTAKE EXTRACT

HYDROLYZED COLLAGEN

WATER (AQUA)

Mushroom Extract EPA (USA) GENERIC NAME:

CAMPO RESEARCH PTE LTD MANUFACTURER:

(cGMP MFG. FACILITIES): #05-02, HUDSON INDUSTRIAL BUILDING

No, 14, NEW INDUSTRIAL ROAD,

SINGAPORE 536203.

**EMERGENCY TELEPHONE NUMBERS:** (65)-63833631/(65)-63228503 (Singapore)

HAZARDS INDENTIFICATION

NOT CLASSIFIED AS DANGEROUS ACCORDING

**DIVISION 1.6; NON-HAZARDOUS** TO DIRECTIVE 67/548/EEC OR ITS AMENDMENTS. NO HAZARD STATEMENT

HAZARD CLASS and CATEGORY CODE(s) PICTOGRAM: NONE

HAZARD STATEMENT CODE(s) (EC REGULATION NO#1272/2008

AMENDED NO#790/2009) and compliant to

the GHS

No GHS Pictogram (Totally Non-Hazardous) Division 1.6; NO HAZARD STATEMENT

PICTOGRAM: NONE **GHS CLASSIFICATION:** 

No GHS Pictogram (Totally Non-Hazardous) This material is Non-hazardous according

To UN-GHS Criteria. Division 1.6: No Hazard Statement.

No GHS Pictogram (Totally Non-Hazardous) **GHS LABEL ELEMENTS:** 

Division 1.6: No Hazard Statement.

COMPOSITION / INFORMATION ON INGREDIENTS

POLYPETIDE-AMINO ACID RESIDUES WITH

NATURAL SKIN-IDENTICAL HYDROXYCERAMIDES SOLUBLISIED IN

**PURIFIED WATER** 

Amino acids; polypeptides; water

CTFA Monograph ID 18255 – Tricholoma Matsutake Extract

1246 - Hydrolyzed Collagen

9423 – Water/Aqua

CAS# N/A – Tricholoma Matsutake Extract

> N/A (EU) – Tricholoma Matsutake Extract 73049-73-7 / 92113-31-0 — Hydrolyzed Collagen

92113-31-0 / 73049-73-7 (EU) - Hydrolyzed Collagen

7732-18-5 – Water (Aqua)

CAS NO# (CAS Name)

(EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant

to the GHS

CAS# EU

92113-31-0 / 73049-73-7 - Hydrolyzed Collagen

7732-18-5 – Water (Aqua)

**EINECS Name and Number** 

EINECS# EU

N/A – Tricholoma Matsutake Extract

N/A (EU) – Tricholoma Matsutake Extract

N/A - Hydrolyzed Collagen

295-635-5 (EU) – Hydrolyzed Collagen

231-791-2 – Aqua (Water)

**EINECS# (EINECS Name)** (EC REGULATION NO#1272/2008

AMENDED NO#790/2009) and compliant

to the GHS

295-635-5 - Hydrolyzed Collagen

231-791-2 - Water (Aqua)

**EINECS Name and Number** 

EINECS# EU

European Commission-Health & Consumer Cosmetics-

Cosing

Tricholoma Matsutake Extract

http://ec.europa.eu/consumers/cosmetics/cosing/index.cf

m?fuseaction=search.details v2&id=59810

Tricholoma Matsutake Extract – N/A (EU)

Hydrolyzed Collagen

http://ec.europa.eu/consumers/cosmetics/cosing/index.cf

m?fuseaction=search.details v2&id=76560 Hydrolyzed Collagen – 295-635-5 (EU)

Aqua (Water)

http://ec.europa.eu/consumers/cosmetics/cosing/index.cf

m?fuseaction=search.details v2&id=31959

Aqua - 231-791-2 (EU)

RISK PHRASES

SAFETY PHRASES 25-26

None

Not Mandatory

**GHS CLASSIFICATION:** 

**GHS LABEL ELEMENTS:** 

This material is Non-hazardous according

To UN-GHS Criteria.

PICTOGRAM: NONE

No GHS Pictogram (Totally Non-Hazardous)

Division 1.6: No Hazard Statement.

4 FIRST AID MEASURES

EYE CONTACT:

Wash with water or standard eye wash solution. Seek medical advice, if irritation occur and persist.

ORAL INGESTATION:

Edible in small quantity (3-5 grams) with bland to bitter

sweet after taste.

SKIN CONTACT: Wash with water or shower.

5 FIRE FIGHTING MEASURERS

NON-COMBUSTIBLE BUT PRESENTS NO

SPECIAL FIRE HAZARD.

**EXTINGUISHING MEDIA:** 

Treat as oil fire when store in HDPE drums with CO2,

dry foam or dry chemical. Standard Equipments.

PROTECTIVE EQUIPMENTS FOR FIGHTERS:

6 ACCIDENTAL RELEASE MEASURES

ABSORB ONTO AN INERT MATERIAL AND SCRAPE UP. REMOVE RESIDUE BY SCRUBBING WITH HOT WATER OR DETERGENT SOLUTION.

7 HANDLING AND STORAGE

STORE IN SEALED CONTAINERS UNDER NORMAL

COOL, DRY WAREHOUSING CONDITIONS.

8 EXPOSURE AND PERSONAL PROTECTION

IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE AND HANDLING USING STANDARD

EYE PROTECTION.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: COLOUR: ODOUR:

Clear colorless Characteristic - faint 100 - 105 deg. cent

Liquid

MELTING POINT: VISCOSITY:

**BOILING POINT:** 

FLASH POINT:

> 160°CAMPO deg. cent

FLAMMABILITY SOLID/GAS: N/A AUTO FLAMMABILITY: N/A

SPECIFIC REFRACTIVE: 1.200 - 1.450

EXPLOSIVE PROPERTIES: N/A
pH: (100% Concentrate) 4.50 – 6.50
OXIDIZING PROPERTIES: N/A
VAPOUR PRESSURE: N/A

DENSITY: 1.000 - 1.200 WATER SOLUBILITY: Soluble

OTHER SOLUBILITY: In Most Cosmetic Solvents

BULK DENSITY: - PARTITION COEFFICIENT: -

(OCTANOL/WATER) EXPLOSIVE LIMITS:

10 STABILITY AND REACTIVITY

THERMAL DECOMPOSITION: Stable under normal conditions of use.

11	TOXICOLOGICAL DATA	Animal Tests Last Done 1992, as requirements of the
	ORAL:	then EC DIRECTIVE 91/155/EEC LD50 > 3,679 MG/KG (Body Wt.) Rat
	5.1. <u>2.</u> 1	Essentially Non-Toxic and Edible in Small Quantity.
	DERMAL:	Expected To Be Essentially Non Toxic.
	INHALATION:	N/A
	SPECIFIC CONCENTRATION LIMITS	3,679 MG/KG (Body Wt.); CATEGORY 5
	M-FACTORS	Essentially Non-Toxic and Edible in Small Quantity.
	(EC REGULATION NO#1272/2008 AMENDED NO#790/2009) compliant to	
	the GHS. TOXIC EFFECTS:	Deimonily Imitation Inday (DII) = 0.0 ( Non Imitating
	SKIN:	Primarily Irritation Index (PII) = 0.0 ( Non- Irritating - Skintex), Not A Primarily Irritant.
		Non-irritant / Non-sensitizer as per Repeated Patch
		Insult Test on 50 Human volunteers.
		Human Repeated Patch Test 48 hours:
		50/50 completely non-irritating / non-erythema causing
		<b>ingredient at 10% concentrate in water</b> on 50 human volunteers
	EVE	
	EYE:	Very Mild/Minimal - Not A Transient Conjunctival
		Irritant at 10% concentrate in water (Eyetex - Eyetex classification ).
		Summarized toxicological data as shown here are formation bounded
		under Non-Disclosure Agreement with various clients as when these Toxicological Data were established or their exclusive uses.
12	ECOLOGICAL INFORMATION	Toalcological Data were established of their exclusive uses.
	BIODEGRATION:	Expected to be ultimately Biodegradable
	FISH TOXICITY:	No Data
	BACTERIAL & VIRAL TOXICITY:	Potentially very harmful to bacterial & viral microorganisms.
	WGK CLASS:	WGK (Self Classification)
13	DISPOSAL CONDITIONS	
	DISPOSE OFF ACCORDING TO A RECOGNISED	
14	METHOD OF CHEMICAL WASTE DISPOSAL. TRANSPORT INFORMATION	
14	UN NUMBER#:	N/A
	UN NAME:	Not Assigned
	IMDG CODE/CLASS:	Not Hazardous
	IMDG CODE PAGE NO.	N/A
	ICAO/IATA AIR CLASS: ICAO/IATA AIR CLASS PACKING GROUP:	Non-Hazardous N/A
	RID/ADR CLASS:	N/A Non-Hazardous
	ADNR CLASS:	Non-Hazardous
	LABELLING:	
	(EC REGULATION NO#1272/2008	
	AMENDED NO#790/2009) and compliant to	
	the GHS. PICTOGRAM SIGNAL WORD CODE(s):	No GHS Pictograms (Totally Non-Hazardous)
	HAZARD STATEMENT CODE(s):	Division 1.6; No Hazard Statement
	SUPPLEMENTARY HAZARD	· · · · · · · · · · · · · · · · · · ·
4 =	STATEMENT CODE(s):	Similar Division 1.6; No Hazard Statement
15	REGULATORY INFORMATION OCCUPATIONAL EXPOSURE LIMITS:	N/A
	OCCUPATIONAL LAI ODURE EIMITS.	17/12
	U.S. State of California Proposition 65 INGREDIENTS	None (Exempted from CA Prop 65 Register)
	Presence	
	EU Commission Regulation No.358/2014/9 of 9 <sup>th</sup> April	"Contains No Parabens and nor contains any
	2014 amending Annexes II and V, to EU Regulation	<b>Branched Chain Parabens".</b> (EU Regulation No.358/2014/9 of 9 <sup>th</sup> April 2014)

	No No.1223/2009 of The European Parliament and of The Council on Cosmetic products	
16	OTHER INFORMATION	
	USES AS A COSMETIC ADDITIVE	> 0.4 - 1.0 %
	This format and information is compiled by Kampoyaki Novel Natural Product Chemistry/ Novel Drug Discovery cGMP Labs Kobe, Japan; for Campo Research, Kyoto and Singapore.	*Please take note that all specifications are liable to changes without prior notice.

**CAMPO HYDRINS 2** ©.

### Literature references:

- Y. Rouille et. Al.; Proceedings National Academy of Sciences, USA 86, 5272 (1989)
- S. Iwamuro et. Al., Biochem. Biophys. Acta 1176, 143 (19930)
- S. Iwamuro, Consultant, Eisai Pharm. Co. Ltd. Japan; per. Comm. 1994/5.

Duranddeau, C.; Chapitre "Tissue Conjonctif" These Doctorat d'edat en Sciences Pharmaceutiques, Nov. 1984, Universtite Bordeaux II.

Forestier, J, P., Les Peptides animaux et vegetable en Cosmetologie" 1992

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