

# Campo Kinetin



**“Sun Aged Skin’s Anti-Oxidant for  
perceptive immediate Wrinkle  
Reduction”**



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CAMPO® Multi-Purpose Cosmetic Base Chemicals & Active Ingredients

CAMPO® Novel Functional Active Cosmetic Ingredient & Raw Materials

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#### **IMPORTANT NOTICE**

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non-listed ingredients enquiry	cosmetics ingredients	what's new in campo	best seller ingredient	INCI/CTFA names	distributor enquiry	new innovations	contacting us	formularies	press releases	export enquiry	our profile	MSDS
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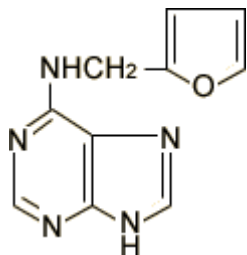
**CAMPO RESEARCH**  
ACTIVE INGREDIENTS

Campo Novel Active Cosmetic Ingredients. The Ingredients That Impart Consumer Perceivable Functional Activities To Your Cosmetic End Products !!!

24 hrs. campo@publ.jp.vocaltec.com support@campo-research.com

## CAMPO KINETIN

INCI NAME:	KINETIN	
Molecular formula:	C <sub>10</sub> H <sub>9</sub> N <sub>5</sub> O	
Molecular weight:	215.21	
CAS:	<i>adenine, N-6 furfuryl</i>	
CAS NO#:	525-79-1	EINECS # 208-382-2
CAS NO#:	9001-54-1	EINECS # 232-614-1



### ***KINETIN (KINERASE, ADENINE, N6-FURFURYL)***

#### **Kinetin as the effective Active Ingredient for a “Sun Aged Skin’s Anti-Oxidant for preceptive immediate Wrinkle Reduction.”**

The available clinical evidence is that people taking kinetin all had better skin. In skin cells growth, kinetin delays damage that occurs over time. In animals, kinetin is produced by oxidative damage and seems to trigger several defenses against it.

There is reasonably good evidence for this, therefore, kinetin might protect against the damage caused by the sun, which is the main source of old-looking skin and which might cause damage via oxidation. Kinetin improves the skin’s ability to be a barrier against water loss.

A study was performed with three groups of subjects, taking either 1% kinetin (which is in Kinerase), 0.05% kinetin, and 0.01% kinetin. The effectiveness of kinetin can be demonstrated by the 1% group showing more improvement than the .01% group. Essentially all of the subjects reported improvement after 24 weeks. 92% reported an improvement in the texture of their skin, 80% reported an improvement in color, 75% improved in blotchiness, an 81% improved in fine wrinkles.

**Kinetin is physiologically extraordinary active in correcting skin-wrinkles due to aging.**

**Kinetin is now widely used in cosmetics as an Anti-wrinkle magic treatment ingredient.**

**Campo’s Kinetin is isolated from a natural source - Young Coconut endospermum and Young Coconut Juice**

## Kinetin from DNA

Kinetin was first synthesized chemically from DNA. It turns out that cells can follow this same route of synthesis (Barciszewski, 1997, FEBSL). Suppose DNA is oxidized. (Actually, there is a hydroxyl radical oxidation at the carbon 5' of the deoxyribose residue.) Oxidation is not good for the DNA. This oxidation creates a substance called furfural. Furfural is not good. However, furfural can be degraded to kinetin. This gets rid of the furfural, and the kinetin protects the DNA. According to Barciszewski, the kinetin initiates a repair sequence on the DNA (which is good).

This locates kinetin in the nucleus of the cell (where the DNA is). Barciszewski (1996) found kinetin in the cell outside the nucleus.

The hydroxylation comes from the hydroxyl radical, which usually comes from hydrogen peroxide, which usually comes from superoxide. This means that kinetin is produced in response to this class of free radicals, which are called the three oxides.

## Hydrogen Peroxide and Superoxide

To tie things together, if DNA is oxidized by the hydroxyl radical, which probably came from hydrogen peroxide, the breakdown product is converted to something that defends the cell against hydrogen peroxide.

If Kinetin was produced only from the oxidation of DNA, the defense against hydrogen peroxide would get started only once damage has occurred. Furthermore, presumably not that much kinetin would be produced. Barciszewski found kinetin outside of DNA (albeit in coconut). This suggests that the cell has other methods of producing kinetin, which are activated to fight against hydrogen peroxide.

Kinetin can also attach itself to copper, in which case it catalyzes the breakdown of superoxide to hydrogen peroxide (Goldstein, 1991, FRRC; Inoue, 1986, Barja, 1993, FRRC). Kinetin also directly stimulates SOD (superoxide dismutase), which also breaks superoxide down to hydrogen peroxide. (Kurepa, 1997, PCP). This may sound *primitively* backwards, but actually kinetin is making hydrogen peroxide. But it fits together in a way. Hydrogen peroxide is not as dangerous as superoxide, so this action is good. Meanwhile, hydrogen peroxide is often (usually) created from superoxide. So kinetin could be thought of as just generally reducing the activity of the three oxides.

## Skin

One theory of skin aging is that it is caused by free radicals. The free-radical theorists point their finger at the three oxides. And everyone agrees that ultraviolet radiation from the sun is the primary reason for skin looking old. Ultraviolet rays cause wrinkles, pigmented spots, and cancer.

Evidence demonstrates that UV radiation influences the three oxides. For example, one study (Maeda, 1991, PP) looked at the effects of exposing the hairless mouse to ultraviolet rays. SOD was increased after 6 weeks, but thereafter it steadily declined. [Glutathione peroxidase remained elevated.] SOD, as you might recall, protects the cell against superoxide by converting it to hydrogen peroxide.

In another study using constant UV radiation (Okada, 1994, JDS), SOD again was initially increased but then returned to normal levels. Catalase activity, however, was "suppressed." Catalase is an enzyme that converts hydrogen peroxide to molecular oxygen and water. Okada

suggests that continual exposure to UV radiation may overwhelm the capacity of the cell for eliminating hydrogen peroxide/superoxide.

## Conclusion

The evidence seems plausible that kinetin might protect the cell against damage from the three oxides. One view of aging in skin, which receives reasonable support, is that the three oxides cause aging. This is tied to the sun, because UV rays from the sun increase the three oxides.

Therefore, it is possible that applying kinetin to your skin would mobilize your skin's defenses against the three oxides. This might delay aging over time. It is suppose it might also provide some fast relief to beleaguered cells who were low in their defense against the three oxides.

**Kinetin (adenine, N-6 furfuryl)**, the active ingredient in **Campo Kinetin**, is a highly potent growth factor that, along with other plant-growth substances, promotes cell division and ensures orderly growth and development of plants. In a study published in *Biochemical and Biophysical Research*, kinetin delayed or prevented a range of cellular changes associated with in vitro aging of human skin cells, including alterations in cell morphology, growth rate, size, cytoskeletal organization, macromolecular synthetic activity and accumulation of lipofuscin aging pigments.

Equally important, the study showed that kinetin did not alter the maximum in vitro life span of human skin cells or their ability to multiply in culture. Thus, kinetin was devoid of activities associated with cellular immortalization, malignant transformation and carcinogenesis.



## **Campo Kinetin 75% Liquid for Cosmetic**



**Product No: 2001-03-02-1**

### **Product Specification**

Botanical Name:	Cocos nucifera L
Existing INCI Name:	Kinetin (and) Cocos Nucifera (Coconut) Fruit Extract
Parts used:	Freezed Dried Young Coconut Fruit Endospermum & Coconut Juice
INCI Name, Others:	<i>KINETIN</i>
Appearance:	Clear Flowing Liquid
Color:	Colorless to slight yellowish tint
Specific Gravity:	1.000 – 1.100
Refractive Index:	1.250 – 1.480
pH @20 deg.C (10% solution):	4.5. – 8.5
Water Content:	< 25%
Solubility:	Readily soluble in water
Uses:	Anti-Wrinkles Topical Treatment Cosmetics and Skin-Wrinkles Corrector Cosmetics
Usage Level:	0.001 - 10%

**CAMPO RESEARCH Pte Ltd**  
**TECHNICAL SPECIFICATION**

PRODUCT Name (Campo Research) Other Trade Names (Campo Research) Proposed INCI Name:	<b>CAMPO KINETIN 75% CONC. - LIQUID</b> Kinerase Campo Kinetin (AND) Cocos Nucifera (Coconut) Fruit Extract
CTFA TRADE NAME	Kinetin
Existing INCI Name(s)	Kinetin; Cocos Nucifera (Coconut) Fruit Extract
Chinese Translation	激动素 (KINETIN) 椰子 (COCOS NUCIFERA) 果提取物
CAMPO PRODUCT # HS Code:	<b>2001-03-02-1</b> 1302.19.0000
CTFA Monograph ID	9882 – Kinetin 8658 – Cocos Nucifera (Coconut) Fruit Extract
CAS# CAS# EU	525-79-1 / 9001-54-1 – Kinetin 525-79-1 (EU) – Kinetin N/A – Cocos Nucifera (Coconut) Fruit Extract 8001-31-8 (EU) – Cocos Nucifera Fruit Extract
EINECS Number and Name EINECS# EU	208-382-2(1) / 232-614-1(1) – Kinetin 208-382-2 (EU) – Kinetin N/A – Cocos Nucifera (Coconut) Fruit Extract 232-282-8 (EU) – Cocos Nucifera Fruit Extract
EINECS Number and Name EINECS# EU European Commission–Health & Consumer Cosmetics–Cosing	Kinetin <a href="http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=78076">http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=78076</a> Kinetin – 208-382-2 (EU)  Cocos Nucifera Fruit Extract <a href="http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=55633">http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=55633</a> Cocos Nucifera Fruit Extract – 232-282-8 (EU)
BATCH/LOT #	<b>See COA Batch Lot</b>
SPECIES	Cocos nucifera Syn: Cocos nucifera Linn.
PARTS USED	Freezed Dried Young Coconut Fruit Endospermum & Coconut Juice
RAW MATERIAL - ORIGIN	JAPAN
CONCENTRATION	<b>75%</b> Kinetin, Natural Metabolite - Ex-Freezed Dried Young Coconut Fruit Endospermum & <b>25%</b> Coconut Juice
COMMENTS	May experience jelly like substance – shake or agitate well  A Quality Management System, compliant to the International Standard ISO 9001, was used to manufacture and test this material  <b>*Please take note that all specifications are liable to changes without prior notice.</b>

<u>Specification Parameter Analysis</u>	<u>Specification Range</u>	<u>Results</u>	<u>Methods</u>
Physical Form	Clear Flowing Liquid	Conforms	Visual
Colour	Colourless to slight yellowish tint	Conforms	Visual
Odour	Almost odorless	Conforms	Olfactory

Specific Gravity ( 20°C)	1.000-1.100	See COA	USP XXIX/Par,DMA35
Refractive Index (20°C)	1.250-1.480	See COA	USP XXIX/DGF IV C (52)
pH(20deg.C.) (100% concentrate)	4.50 - 8.50	See COA	USP XXIX/DGF H III (92)
Amino Acids	-	See COA	-
Porosity	-	-	-
Solubility	Soluble	Conforms	
Germanium Organic	-	See COA	USP XXIX / Ph.Eur.2.6.12(97)
Strontium Organic	-	See COA	USP XXIX / Ph.Eur.2.6.12(97)
Selenium Organic	-	See COA	USP XXIX / Ph.Eur.2.6.12(97)
Zinc Complex Organic	-	See COA	USP XXIX / Ph.Eur.2.6.12(97)
Mercury	-	See COA	USP XXIX / Ph.Eur.2.6.12(97)
Arsenic	-	See COA	USP XXIX / Ph.Eur.2.6.12(97)
Other Trace Element	-	See COA	-
Dry Residue (160deg.C/34Min)	N/A	-	Mettler 16J
Preservation	None	Conforms	-
Pesticide Content	None	Conforms	Pflanzaniaschuttal 1989
Total Germs	<10 CFU/ml - non-pathogenic	Conforms	USP XXIX / Ph.Eur.2.6.12(97)
Total Yeast/Mold	Nil	Conforms	USP XXIX / Ph.Eur.2.6.12(97)
Heavy Metals(Total)As,Pb,Hg	<0.05 ppm	Conforms	USP XXIX / Ph.Eur.2.6.12(97)

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**“(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.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	Dec. 10th 1996- Rev'wer- Dr Fergus Jes .G.Velasquez Bsc. Med Tech, MD <b>Mr Jimmy Kee, 30<sup>th</sup> June 2003</b> <b>Mr Teo SH 5<sup>th</sup> Jan 2004</b> <b>Balasubramaniam M,PhD 21<sup>st</sup> August 2007</b> <b>Mr Joshua Teo, 21 Jan 2011</b> <b>February 5<sup>th</sup> 2013 – Reviewer –</b> <b>Dr Balasubramaniam M, PhD</b> <b>12<sup>th</sup> February 2015 - Joshua Teo BSc. Chem,</b> <b>Balasubramaniam M PhD &amp; Oksana</b> <b>Nemchenko MD</b> <b>15<sup>th</sup> May 2016 - Joshua Teo BSc. Chem,</b> <b>Balasubramaniam M PhD &amp; Oksana</b> <b>Nemchenko MD</b>
<b>1</b>	<b>PRODUCT AND COMPANY IDENTIFICATION</b>
COMMERCIAL NAME:	<b>CAMPO KINETIN 75% CONCENTRATED LIQUID For Cosmetics</b>
OTHER TRADE NAME:	<b>Kinerase</b>
LATIN NAME:	Cocos nucifera Linn.
INCI NAME: (PROPOSED) Existing INCI Name(s)	Kinetin (AND) Cocos Nucifera (coconut) Extract KINETIN COCOS NUCIFERA (COCONUT) FRUIT EXTRACT
Chinese Translation	激动素 (KINETIN) 椰子 (COCOS NUCIFERA) 果提取物
INTERNATIONAL CHEMICAL IDENTIFICATION (EC REGULATION NO#1272/2008	<b>KINETIN COCOS NUCIFERA (COCONUT) EXTRACT</b>

<b>AMENDED NO#790/2009)and Compliant to the GHS</b>	
EPA (USA) GENERIC NAME:	Kinetin
MANUFACTURER : (cGMP MFG. FACILITIES) :	<b>CAMPO RESEARCH PTE LTD Level 30, 6 Battery Road, SINGAPORE 049909.</b>
EMERGENCY TELEPHONE NUMBERS:	(65)-63833631/(65)-63228503 (Singapore)
<b>2 HAZARDS IDENTIFICATION</b>	
NOT CLASSIFIED AS DANGEROUS ACCORDING TO DIRECTIVE 67/548/EEC OR ITS AMENDMENTS.	DIVISION 1.6; NON-HAZARDOUS NO HAZARD STATEMENT
<b>HAZARD CLASS and CATEGORY CODE(s)</b>	PICTOGRAM : NONE
<b>HAZARD STATEMENT CODE(s)</b> <i>(EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant to the GHS</i>	No GHS Pictogram (Totally Non-Hazardous) Division 1.6; NO HAZARD STATEMENT
<b>GHS CLASSIFICATION :</b> This material is Non-hazardous according To UN-GHS Criteria.	PICTOGRAM : NONE No GHS Pictogram (Totally Non-Hazardous) Division 1.6: No Hazard Statement.
<b>GHS LABEL ELEMENTS:</b>	No GHS Pictogram (Totally Non-Hazardous) Division 1.6: No Hazard Statement.
<b>3 COMPOSITION / INFORMATION ON INGREDIENTS</b>	
100 PERCENT CARBON DIOXIDE GAS EXTRACTION OF 75% OF COCONUT KINETIN NATURAL METABOLITE - Ex-FREEZED DRIED FROM YOUNG COCONUT FRUIT ENDOSPERMUM SECRETION OF WATER-INSOLUBLE FREEZED-DRIED COMPONENTS & 25% COCONUT JUICE RECONSTITUTED.	<b>Kinetin, Cocos Nucifera (coconut) Extract</b>
CTFA Monograph ID:	9882 – Kinetin 8658 – Cocos Nucifera (Coconut) Fruit Extract
CAS#	
CAS# EU	525-79-1 / 9001-54-1 – Kinetin 525-79-1 (EU) – Kinetin N/A – Cocos Nucifera (Coconut) Fruit Extract 8001-31-8 (EU) – Cocos Nucifera Fruit Extract
<b>CAS NO# (CAS Name)</b> <i>(EC REGULATION NO#1272/2008 AMENDED NO#790/2009)and compliant to the GHS</i>	<b>525-79-1– Kinetin</b> <b>8001-31-8– Cocos Nucifera Fruit Extract</b>
EINECS Name and Number EINECS# EU	208-382-2(1) / 232-614-1(1) – Kinetin 208-382-2 (EU) – Kinetin N/A – Cocos Nucifera (Coconut) Fruit Extract 232-282-8 (EU) – Cocos Nucifera Fruit Extract
<b>EINECS# (EINECS Name)</b> <i>(EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant to the GHS</i>	<b>208-382-2 – Kinetin</b> <b>232-282-8 – Cocos Nucifera Fruit Extract</b>
EINECS Name and Number	Kinetin

EINECS# EU European Commission–Health & Consumer Cosmetics–Cosing	<a href="http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=78076">http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=78076</a> Kinetin – 208-382-2 (EU)
	Cocos Nucifera Fruit Extract <a href="http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=55633">http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=55633</a> Cocos Nucifera Fruit Extract – 232-282-8 (EU)
RISK PHRASES SAFETY PHRASES 25-26	None Not Mandatory
<b><u>GHS CLASSIFICATION :</u></b> This material is Non-hazardous according To UN-GHS Criteria.	<b>PICTOGRAM : NONE</b>
<b><u>GHS LABEL ELEMENTS:</u></b>	<b>No GHS Pictogram (Totally Non-Hazardous) Division 1.6: No Hazard Statement.</b>
<b>4 FIRST AID MEASURES</b>	
EYE CONTACT:	Wash with water or standard eye wash solution. Seek medical advice, if irritation occur and persist.
ORAL INGESTATION:	Edible in small quantity (10 gms) without adverse effects.
SKIN CONTACT:	Wash with water or shower.
<b>5 FIRE FIGHTING MEASURES</b>	
<b>NON-COMBUSTIBLE AND PRESENTS NO SPECIAL FIRE HAZARD.</b>	
EXTINGUISHING MEDIA:	Treat as oil fire when store in HDPE drums with CO2, dry foam or dry chemical.
PROTECTIVE EQUIPMENTS FOR FIGHTERS:	Standard Equipments.
<b>6 ACCIDENTAL RELEASE MEASURES</b>	
ABSORB ONTO AN INERT MATERIAL AND SCRAPE UP. REMOVE RESIDUE BY SCRUBBING WITH HOT WATER OR DETERGENT SOLUTION.	
<b>7 HANDLING AND STORAGE</b>	
STORE IN SEALED CONTAINERS UNDER NORMAL COOL, DRY WAREHOUSING CONDITIONS.	
<b>8 EXPOSURE AND PERSONAL PROTECTION</b>	
IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE AND HANDLING USING STANDARD EYE PROTECTION. USE OF PROTECTIVE MASK FOR DUST PARTICLES.	
<b>9 PHYSICAL AND CHEMICAL PROPERTIES</b>	
PHYSICAL FORM:	Clear Flowing Liquid
COLOUR:	Colorless to slight yellowish tint
ODOUR:	Almost odorless
BOILING POINT:	-
MELTING POINT:	-
VISCOSITY:	-
FLASH POINT:	-
FLAMMABILITY SOLID/GAS:	N/A
AUTO FLAMMABILITY:	N/A
SPECIFIC REFRACTIVE:	1.250 - 1.480
EXPLOSIVE PROPERTIES:	N/A
pH: (100% Concentrate)	4.50 - 8.50
OXIDIZING PROPERTIES:	N/A
VAPOUR PRESSURE:	N/A
SPECIFIC GRAVITY / DENSITY:	1.000-1.100
WATER SOLUBILITY:	Soluble

	OTHER SOLUBILITY:	-
	BULK DENSITY:	-
	PARTITION COEFFICIENT: (OCTANOL/WATER)	-
	EXPLOSIVE LIMITS:	-
<b>10</b>	<b>STABILITY AND REACTIVITY</b>	
	THERMAL DECOMPOSITION:	Stable under normal conditions of use.
<b>11</b>	<b>TOXICOLOGICAL DATA</b>	Animal Tests Last Done 1992, as requirements of the then <b>EC DIRECTIVE 91/155/EEC</b>
	ORAL:	LD50 > 36,000 MG/KG (Body Wt.) Rat Essentially Non-Toxic and Edible in Small Quantity.
	DERMAL:	Expected To Be Essentially Non Toxic.
	INHALATION:	Slight Ethanolic Sting – irritation
	<b>SPECIFIC CONCENTRATION LIMITS M-FACTORS (EC REGULATION NO#1272/2008 AMENDED NO#790/2009) compliant to the GHS.</b>	36,000MG/KG (Body Wt.); CATEGORY 5 Essentially Non-Toxic and Edible in Small Quantity.
	<b>TOXIC EFFECTS:</b>	
	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
	EYE:	Very Mild/Minimal - Not A Transient Conjunctival Irritant at 10% concentrate in water (Eyetex - Eyetex classification ).  <i>Summarized toxicological data as shown here are formally bounded under Non-Disclosure Agreement with various clients as when these Toxicological Data were established or their exclusive uses.</i>
<b>12</b>	<b>DISPOSAL CONDITIONS</b>	
	DISPOSE OFF ACCORDING TO A RECOGNISED METHOD OF CHEMICAL WASTE DISPOSAL.	
<b>13</b>	<b>ECOLOGICAL INFORMATION</b>	
	BIODEGRATION:	Expected To Be Ultimately Biodegradable.
	FISH TOXICITY:	No Data
	BACTERIAL & VIRAL TOXICITY:	No data
	WGK CLASS:	WGK (Self Classification)
<b>14</b>	<b>TRANSPORT INFORMATION</b>	
	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
	<b>LABELLING:</b> <b>(EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant to the GHS.</b>	No GHS Pictograms (Totally Non-Hazardous)

<b>PICTOGRAM SIGNAL WORD CODE(s):</b>	Division 1.6; No Hazard Statement
<b>HAZARD STATEMENT CODE(s):</b>	
<b>SUPPLEMENTARY HAZARD STATEMENT CODE(s):</b>	Similar Division 1.6; No Hazard Statement
<b>15 REGULATORY INFORMATION</b>	
OCCUPATIONAL EXPOSURE LIMITS:	N/A
<b>16 OTHER INFORMATION</b>	
USES AS A COSMETIC ADDITIVE	0.01 - 10.0 %
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.	<b>*Please take that all specifications are liable to change without prior notice</b>

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## Campo Kinetin Purum Powder for Cosmetics

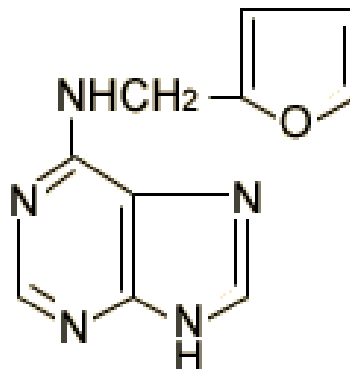
### ***KINETIN***

**Adenine, N-6 furfuryl**

**Molecular formula: C<sub>10</sub>H<sub>9</sub>N<sub>5</sub>O**

**Molecular weight: 215.21**

**Product No: 2001-03-02**



### **Product Specification**

<b>INCI Name:</b>	<b><i>KINETIN</i></b>
<b>Botanical Name:</b>	Cocos nucifera L
<b>Parts used:</b>	Freezed Dried Young Coconut fruit Endospermum & Juice
<b>Properties:</b>	<b>White crystal or white crystalline powder,</b>
<b>Melting point:</b>	<b>266-276 Deg. C</b>
<b>Solubility:</b>	<b>Easily soluble in dilute acid (dilute Lactic Acid or weak Alpha-Hydroxy Acids) and dilute alkali, but hardly soluble in water, alcohol, ether and acetone.</b>
<b>Uses:</b>	<b>Anti-Wrinkles Topical Treatment Cosmetics and Skin-Wrinkles Corrector Cosmetics</b>
<b>Usage Level:</b>	<b>0.0005 - 1%</b>

### **Specifications:**

***Campo Kinetin 95%***  
**Assay: 95%**  
**Melting point: 258-260 deg C**  
**Loss on drying: 0.5%**

***Campo Kinetin 98%***  
**Assay: 98%**  
**Melting point: 262-264 deg.C**  
**Loss on drying: 0.3%**

**Packing: 10kg/drum**

**Monthly: 50kg/month**

**CAMPO RESEARCH Pte Ltd**  
**TECHNICAL SPECIFICATION**

PRODUCT Name (Campo Research)	<b>CAMPO KINETIN PURUM POWDER 98% For Cosmetics</b>
Other Trade Names (CampoResearch) CTFA TRADE NAME (Proposed)	<b>Kinetin</b> CAMPO KINETIN PURUM POWDER 98%
Existing INCI Name	Kinetin
Chinese Translation	激动素 (KINETIN)
CAMPO PRODUCT #	<b>2001-03-02</b>
HS Code:	1302.19.0000
CTFA Monograph ID:	9882 – Kinetin
CAS#	525-79-1 / 9001-54-1 – Kinetin
CAS# EU	525-79-1 (EU) – Kinetin
EINECS Number and Name	208-382-2(1) / 232-614-1(1) – Kinetin
EINECS# EU	208-382-2 (EU) – Kinetin
EINECS Number and Name	Kinetin
EINECS# EU	<a href="http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=78076">http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=78076</a>
European Commission–Health & Consumer Cosmetics–Cosing	Kinetin – 208-382-2 (EU)
BATCH/LOT #	<b>See COA Batch lot</b>
SPECIES	Cocos nucifera Syn: Cocos nucifera Linn.
PARTS USED	Freezed Dried Young Coconut Fruit Endospermum & Fractionated insoluble components of Young Coconut Juice
RAW MATERIAL - ORIGIN	JAPAN
CONCENTRATION	100% Kinetin
COMMENTS	A Quality Management System, compliant to the International Standard ISO 9001, was used to manufacture and test this material  <b>*Please take note that all specifications are liable to changes without prior notice.</b>

<u>Specification Parameter Analysis</u>	<u>Specification Range</u>	<u>Results</u>	<u>Methods</u>
Physical Form	White Crystal or Fine White Crystalline Powder	Conforms	Visual
Colour	White to Slight Yellowish Buff	Conforms	Visual
Odour	Almost Odorless	Conforms	Olfactory
Specific Gravity ( 20°C) (1 gm dissolved in 10 ml water )	1.010 -1.100 (1 gram dissolved in 10 ml water)	See COA	USP XXIX/Par, DMA35
Refractive Index (20°C)	-	-	USP XXIX/DGF IV C (52)
pH(20deg.C.) (100% concentrate)	N/A	-	USP XXIX/DGF H III (92)
Amino Acids	-	See COA	-
Porosity	-	-	-
Solubility	Water Soluble (With Slight Cloudiness)	Conforms	
Germanium Organic	-	See COA	USP XXIX/Ph.Eur.2.6.12(97)
Strontium Organic	-	See COA	USP XXIX/Ph.Eur.2.6.12(97)
Selenium Organic	-	See COA	USP XXIX/Ph.Eur.2.6.12(97)

Zinc Complex Organic	-	See COA	USP XXIX/Ph.Eur.2.6.12(97)
Mercury	-	See COA	USP XXIX/Ph.Eur.2.6.12(97)
Arsenic	-	See COA	USP XXIX/Ph.Eur.2.6.12(97)
Other Trace Element	-	See COA	-
Dry Residue (160deg.C/34Min)	N/A	-	Mettler 16J
Preservation	None	Conforms	-
Pesticide Content	None	Conforms	Pflanzianschuttal 1989
Total Germs	<10 CFU/ml - non-pathogenic	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Total Yeast/Mold	Nil	Conforms	USP XXIX/Ph.Eur.2.6.12(97)
Heavy Metals(Total)As,Pb,Hg	<0.05 ppm	Conforms	USP XXIX/Ph.Eur.2.6.12(97)

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**Campo Kinetin Purum Powder 98%©.**

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**“(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.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	Dec. 10th 1996- Rev'wer- Dr Fergus Jes .G.Velasquez Bsc. Med Tech, MD <b>February 10<sup>th</sup> 2012 – Reviewer=Joshua Teo</b> <b>February 5<sup>th</sup> 2013 – Reviewer –</b> <b>Dr Balasubramaniam M, PhD</b> <b>12<sup>th</sup> February 2015 - Joshua Teo BSc. Chem,</b> <b>Balasubramaniam M PhD &amp; Oksana Nemchenko</b> <b>MD</b> <b>15<sup>th</sup> May 2016 - Joshua Teo BSc. Chem,</b> <b>Balasubramaniam M PhD &amp; Oksana Nemchenko</b> <b>MD</b>
<b>1</b>	<b>PRODUCT AND COMPANY IDENTIFICATION</b>
COMMERCIAL NAME: (Proposed)	<b>CAMPO KINETIN PURUM POWDER 98%</b>
OTHER TRADE NAME:	<b>For Cosmetics</b>
LATIN NAME:	Cocos Nucifera Linn.
INCI NAME:	Kinetin
<b>Chinese Translation</b>	激动素 (KINETIN)
<b>INTERNATIONAL CHEMICAL IDENTIFICATION</b> <i>(EC REGULATION NO#1272/2008 AMENDED NO#790/2009)and Compliant to the GHS:</i>	<b>KINETIN</b>
EPA (USA) GENERIC NAME:	Kinetin
MANUFACTURER : (cGMP MFG. FACILITIES) :	<b>CAMPO RESEARCH Pte Ltd</b> <b>Level 30, 6 Battery Road,</b> <b>Singapore 049909.</b>
EMERGENCY TELEPHONE NUMBERS:	(65)-63833631/(65)-63228503 (Singapore)

<b>2</b>	<b>HAZARDS IDENTIFICATION</b>
<p>NOT CLASSIFIED AS DANGEROUS ACCORDING TO DIRECTIVE 67/548/EEC OR ITS AMENDMENTS.</p> <p><b>HAZARD CLASS and CATEGORY CODE(s)</b></p> <p><b>HAZARD STATEMENT CODE(s)</b> (<i>EC REGULATION NO#1272/2008 AMENDED NO#790/2009</i>) and compliant to the GHS</p> <p><b><u>GHS CLASSIFICATION :</u></b> This material is Non-hazardous according To UN-GHS Criteria.</p> <p><b><u>GHS LABEL ELEMENTS:</u></b></p>	<p>DIVISION 1.6; NON-HAZARDOUS NO HAZARD STATEMENT</p> <p>PICTOGRAM : NONE</p> <p>No GHS Pictogram (Totally Non-Hazardous) Division 1.6; NO HAZARD STATEMENT</p> <p>PICTOGRAM : NONE No GHS Pictogram (Totally Non-Hazardous) Division 1.6: No Hazard Statement.</p> <p>No GHS Pictogram (Totally Non-Hazardous) Division 1.6: No Hazard Statement.</p>
<b>3</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>
<p>100 PERCENT CARBON DIOXIDE GAS EXTRACTION OF COCONUT KINETIN NATURAL METABOLITE -Ex-FREEZED DRIED FROM YOUNG COCONUT FRUIT ENDOSPERMUM &amp; COCONUT JUICE SECRETION OF WATER-INSOLUBLE FREEZED-DRIED COMPONENTS.</p> <p>CTFA Monograph ID:</p> <p>CAS# CAS# EU</p> <p><b>CAS NO# (CAS Name)</b> (<i>EC REGULATION NO#1272/2008 AMENDED NO#790/2009</i>)and compliant to the GHS</p> <p>EINECS Name and Number EINECS# EU</p> <p><b>EINECS# (EINECS Name)</b> (<i>EC REGULATION NO#1272/2008 AMENDED NO#790/2009</i>) and compliant to the GHS</p> <p>EINECS Name and Number EINECS# EU European Commission–Health &amp; Consumer Cosmetics–Cosing</p> <p>RISK PHRASES SAFETY PHRASES 25-26</p> <p><b><u>GHS CLASSIFICATION :</u></b> This material is Non-hazardous according To UN-GHS Criteria.</p> <p><b><u>GHS LABEL ELEMENTS:</u></b></p>	<p style="text-align: center;"><b><i>Kinetin</i></b></p> <p>9882 – Kinetin</p> <p>525-79-1 / 9001-54-1 – Kinetin 525-79-1 (EU) – Kinetin</p> <p><b>525-79-1 – Kinetin</b></p> <p>208-382-2(1) / 232-614-1(1) – Kinetin 208-382-2 (EU) – Kinetin</p> <p><b>208-382-2 – Kinetin</b></p> <p>Kinetin <a href="http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=78076">http://ec.europa.eu/consumers/cosmetics/cosing/index.cfm?fuseaction=search.details_v2&amp;id=78076</a> Kinetin – 208-382-2 (EU)</p> <p>None Not Mandatory</p> <p><b>PICTOGRAM : NONE</b></p> <p><b>No GHS Pictogram (Totally Non-Hazardous) Division 1.6: No Hazard Statement.</b></p>

<b>4</b>	<b>FIRST AID MEASURES</b>	
	EYE CONTACT:	Wash with water or standard eye wash solution. Seek medical advice, if irritation occur and persist.
	ORAL INGESTATION:	Edible in small quantity (10 gms) without adverse effects.
	SKIN CONTACT:	Wash with water or shower.
<b>5</b>	<b>FIRE FIGHTING MEASURES</b>	
	<b>NON-COMBUSTIBLE AND PRESENTS NO SPECIAL FIRE HAZARD.</b>	
	EXTINGUISHING MEDIA:	Treat as oil fire when store in HDPE drums with CO <sub>2</sub> , dry foam or dry chemical.
	PROTECTIVE EQUIPMENTS FOR FIGHTERS:	Standard Equipments.
<b>6</b>	<b>ACCIDENTAL RELEASE MEASURES</b>	
	ABSORB ONTO AN INERT MATERIAL AND SCRAPE UP. REMOVE RESIDUE BY SCRUBBING WITH HOT WATER OR DETERGENT SOLUTION.	
<b>7</b>	<b>HANDLING AND STORAGE</b>	
	STORE IN SEALED CONTAINERS UNDER NORMAL COOL, DRY WAREHOUSING CONDITIONS.	
<b>8</b>	<b>EXPOSURE AND PERSONAL PROTECTION</b>	
	IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE AND HANDLING USING STANDARD EYE PROTECTION. USE OF PROTECTIVE MASK FOR DUST PARTICLES.	
<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>	
	PHYSICAL FORM:	White Crystal or Fine white crystalline powder
	COLOUR:	White to slight yellowish buff
	ODOUR:	Almost odorless
	BOILING POINT:	-
	MELTING POINT:	-
	VISCOSITY:	-
	FLASH POINT:	-
	FLAMMABILITY SOLID/GAS:	N/A
	AUTO FLAMMABILITY:	N/A
	SPECIFIC REFRACTIVE:	-
	EXPLOSIVE PROPERTIES:	N/A
	pH:	N/A
	OXIDIZING PROPERTIES:	N/A
	VAPOUR PRESSURE:	N/A
	DENSITY: (1 gm dissolved in 10 ml water)	1.010 -1.100
	WATER SOLUBILITY:	Hardly soluble but dispersible
	OTHER SOLUBILITY:	Easily soluble in weak dilute acid (dilute Lactic Acid or weak diluted Alpha -Hydroxy Acids) or weak dilute Alkali, 10 parts of weak diluted acids pH 5.5 – 6.0 or weak diluted Alkali pH 7.5 to 8.5
	BULK DENSITY:	-
	PARTITION COEFFICIENT: (OCTANOL/WATER)	-
	EXPLOSIVE LIMITS:	-
<b>10</b>	<b>STABILITY AND REACTIVITY</b>	
	THERMAL DECOMPOSITION:	Stable under normal conditions of use.
<b>11</b>	<b>TOXICOLOGICAL DATA</b>	
	ORAL:	Animal Tests Last Done 1992, as requirements of the then <b>EC DIRECTIVE 91/155/EEC</b> Essentially Non-Toxic and Edible in Small Quantity.

DERMAL:	Expected To Be Essentially Non Toxic
INHALATION:	N/A
<b>SPECIFIC CONCENTRATION LIMITS M-FACTORS (EC REGULATION NO#1272/2008 AMENDED NO#790/2009) compliant to the GHS.</b>	MG/KG (Body Wt.); CATEGORY 5 Essentially Non-Toxic and Edible in Small Quantity.
<b>TOXIC EFFECTS:</b>	
SKIN:	Primarily Irritation Index (PII) = 0.0 (Non- Irritating - Skintex), Not a Primarily Irritant. Non-irritant/ Non-sensitizer
EYE:	Very mild / minimal- not a transient conjunctival irritant at 3% concentrate in water (Eyetex Classification)
<i>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.</i>	
<b>12 ECOLOGICAL INFORMATION</b>	
BIODEGRATION:	Expected to be ultimately biodegradable.
FISH TOXICITY:	No data
BACTERIAL & VIRAL TOXICITY:	No data
WGK CLASS:	WGK (Self classification)
<b>13 DISPOSAL CONDITIONS</b>	
DISPOSE OFF ACCORDING TO A RECOGNISED METHOD OF CHEMICAL WASTE DISPOSAL.	
<b>14 TRANSPORT INFORMATION</b>	
UN NUMBER# :	N/A
UN NAME:	Not Assigned
IMDG CODE/CLASS:	Not Hazardous
IMDG CODE PAGES 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
<b>LABELLING:</b> (EC REGULATION NO#1272/2008 AMENDED NO#790/2009) and compliant to the GHS.	
<b>PICTOGRAM SIGNAL WORD CODE(s):</b>	No GHS Pictograms (Totally Non-Hazardous)
<b>HAZARD STATEMENT CODE(s):</b>	Division 1.6; No Hazard Statement
<b>SUPPLEMENTARY HAZARD STATEMENT CODE(s):</b>	Similar Division 1.6; No Hazard Statement
<b>15 REGULATORY INFORMATION</b>	
OCCUPATIONAL EXPOSURE LIMITS:	N/A
<b>16 OTHER INFORMATION</b>	
USES AS A COSMETIC ADDITIVE	0.01 - 50.0 %
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.	<b>*Please take note that all specifications are liable to changes without prior notice.</b>

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