



BOTANY NEWS

LATEST NEWS FROM BURGUNDY

Further to its recent acquisition, Burgundy Botanical Extracts is strengthening its position of supplier for the cosmetic industries. Besides the products catalogue, Burgundy offers its expertise of innovative manufacturer assisted by its R&D and application laboratories .

Sept. 2009 — 1

Burgundy, a subsidiary of Cristal Group Union, has completed the acquisition of the Botanical Extracts activities and facilities from Cognis.

On March 2009, Burgundy—company specializing in the extraction of natural actives from plants and owned 40% by the Group Cristal Union—has acquired the botanical extracts business of Cognis, Division Nutrition and Health, and its range of botanical derivatives sold by the care chemicals division to the cosmetic industry.

This activity from Cognis Iberia achieved a turnover of 9 million euros in 2008 . It produces plant extracts for cosmetics, pharmaceuticals, food and Health, as well as beverages.

This transfer of business from Cognis, international chemicals group, occurred while Burgundy, specialist in fine chemicals in France, sought to strengthen its business of providing natural products and actives . It ensures Burgundy a complementary presence in the pharmaceutical and cosmetic.

This transaction involves the creation of 3 Business Units to improve the readability of the offer of Burgundy:

- ◆ Pharmaceuticals Division
- ◆ Botany Care (cosmetics Division)
- ◆ Food and Health

Centella Asiatica

Since 1903, Laboratorios Dr. Vinyals has been manufacturing botanical extracts for the cosmetic industries.

Centella asiatica is an historical product in our range, and Burgundy is proud to perpetuate the service and the quality on all different grades of *Centella a.*

Traditional plant for its medicinal uses in India for hundreds of years, current plant for its scientifically proven therapeutic properties, the *Centella asiatica* is pleased as ever to the spotlights. A Sri Lankan proverb affirms that "two leaves of Gotu Kola by day are fleeing ages. When " The dream joins the reality!

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What's New

- Burgundy will attend CPhI, both 10E51
- Two Innovative concepts are under trials and will be launched at in-Incosmetic Paris

When tea is synonymous with Beauty!

Delicious, well being, tea is also good for our beauty.

It's one of the older beverages on our planet, coming second to water for consumption. Known for its antioxidants properties, the producers of cosmetic ingredients have discovered its firming qualities, making this plant a new ingredient of choice in the preparation of beauty formulas.



Perfect for skin

Use for nearly 4500 years in traditional Chinese medicine, Tea is increasingly present in the composition of products like moisturizing lotions, cleansers and other tonics, because its high tannin content gives it firming qualities that give the skin a smoother and therefore younger.

Tea antioxidants protect the skin from premature aging... On the one hand, they prevent the degradation of polyunsaturated fatty acids

that make up the cell membranes; On the other hand, they protect cells from attack by free radicals (generated by solar UV, pollution, stress). They are thus anti-aging nutrients, used in cosmetics to reduce wrinkles. .

The gentle fragrance of floral water makes their use very comfortable. They are ideal for complete cleansing, to clean tone, soothe and refresh the skin. They can be sprayed directly on the face, soak cotton or gauze for local applications.

Ideal for our eyes

Among its other properties, its ability to protect skin against dryness and especially its anti-inflammatory properties make it a perfect ally cream or gel around the eyes, day creams or lotions toning. Also calming redness and irritation, it reduces dark circles and tightens the pores; it is perfect for application on awakening.

And even for our hair

Tea helps restore suppleness and shine to dull hair and brittle made by frequent washing, the dryer and dyes.

Small tip !

To decongest eye slightly swollen upon awakening, made brew two tea bags, place them in the refrigerator and then ask them a few minutes compresses on your eyelids.

Witch hazel: New Floral Water in the BotanyFluid range

Witch hazel: astringent, vasoconstrictor, it regulates the production of sebum, tightens pores and helps treat certain circulatory problems (varicose veins, rosacea).

Properties and indications :

The witch hazel hydrosol is a venous tonic, stimulating blood circulation (especially in synergy with the hydrosol of hélichryse Italian).

It is indicated for rosacea, varicose veins, edema ...

Hydrosol is probably the most antioxidant and anti-aging skin (especially in synergy with the hydrosol of cist ladanifere).

In local application, it reduces redness, rashes, irritation...



Hydrosols or floral waters (with distilled water) are collected during the steam distillation of various plants, flowers and herbs. The term "Hydrosol" comes from the Latin word "Hydro" which means water and "Sol" for solution. Therefore the Hydrosol is an aqueous solution full of actives and free of any irritating substance. They are ideal for natural skin care for children and adults, men and women. Hydrosols do not contain alcohol or synthetic chemical species. They are antiseptic, astringent, refreshing and are regarded as perfect substitutes for tonic lotions, aftershave and revitalizing hair. They can also be used on pads, cleaning the skin and can be added to the bath water.

Floral waters A beautiful gesture up to date

The hydrosols (floral waters or when there is a flower) correspond to water containing aromatic molecules obtained after the distillation of a plant.

The concentration of active ingredients of hydrosols is less than essential oils, usually under 3 in 1000 and thus they can be ingested and assimilated into the body quickly.

They do not have contraindications for use that can have the essential oils and can be used directly on the skin in cosmetics.

The gentle fragrance of floral water makes

their use very comfortable. They are ideal for complete cleansing, to clean tone, soothe and refresh the skin. They can be sprayed directly on the face, soak cotton or gauze for local applications.

... Usage tip

Allow to penetrate a minute and then dry the face (to avoid dry skin, because skin is left damp dry!). It is also possible to apply an oil or cream on his face still wet.



The operation includes sales and production units in Sant Andreu de la Barca (west of Barcelona) and Palafolls (north of Barcelona), under the name of Burgundy Iberia subsidiary of Burgundy. Besides the additional production capacity, this acquisition complements the existing portfolio of products for dietary supplements, providing a complete range of pharmacy products, with DMF, and cosmetics

Our facilities at a glance

•Our facility at **Reyssouze** is able to treat 3000 tons of dried herbal raw materials per year (extraction capacity is around 8 tons of dried raw materials per day), using a total extraction capacity of 25 000 L. The internal laboratory of 280 m² is dedicated to control and research, thanks to the laboratory pilot.

•**Palafolls facility** – 29 000 m² - offers a total extraction capacity of 47 800 L, and 11 reactors with a total capacity of 50 m³ for Purification and synthesis and in-process controls laboratory (43 m²)

•At **Sant Andreu de la Barca**, the plant offers extra drying capacity of 300 tons p.a. (spray dryer, vacuum belt dryer), Milling capacity of 1,400 tons p.a. and Homogenization capacity of 8,500 litres p.a.

All steps are operated in **clean rooms Class 100,000** of 607 m² with full control of temperature, humidity, air filtration, and Control and R&D well equipped laboratories (2 x 180 m²).

Quality commitments

Burgundy's fundamental respect for quality make us your best reliable supplier for it whole activity. Besides these certification, Burgundy has integrated environmental components within its site and is certified to manufacture Kosher and Organic grades (Agriculture Biologique certified by Ecocert).



Meeting our Strategy

The acquisition follows the strategy of growth fully established since 2007, addressing the need for diversification of Burgundy which previously focused mainly on food supplements, and providing extra facilities and capacities for high quality products (GMP, clean rooms class 100 000, etc...). With the acquisition of the botanical division of Cognis, Burgundy will achieve a quarter of its turnover in the field of cosmetic.

Being Innovative

Be different and innovative : Burgundy allows you to develop new products with the full support of clinical studies on objectivated concepts, as we did our UTIrose™, IridoForce™, Spineol™, etc...

Centella asiatica or Grass Tiger



Centella asiatica is a plant of the family Apiaceae native to Asia and Oceania. It is also known by the scientific name of Hydrocotyle asiatica L. and various vernacular names, Gotu kola, antanana, Pegaga, and Brahms (the latter name being used for different species of Bacopa monnieri).

In the seventeenth century, Gotu Kola was

used regularly in salads and tea by a Chinese named Li Ching-Yun and reputed to have lived almost 200 years. It is also nicknamed "tiger grass" because the deer wounded rolled in to treat their wounds.

In 1940, the main active ingredient, in addition to tannin, free amino acids, saponins and alkaloids of Centella asiatica was isolated: it is the asiaticoside. This triterpene glycoside which gives the Centella asiatica its effectiveness in Dermatology (bedsores, varicose ulcers, surgical wounds) but also in Cosmetology (stretch marks, cellulite).

They seem to strengthen the connective tissue and reduce the multiple mechanisms by direct action on the parent cells of the skin fibroblasts .

Centella—Technical hints

Typical assay and usual dose:

- ◆ Standardized extracts: 40 % asiaticoside, 29-30 % asiatic acid , 29-30 % acid madecassique, 1-2 % madecassoside, 60 to 120 mg per day.
- ◆ Fluid extract: 2 to 4 ml per day.
- ◆ Dried leaves: 2 to 4g per day.

Side effects / Precaution:

Clinical studies report no particular disorder. However, the effects of the plant are unknown. It is always best to consult your doctor for advice before use.

Emulsions:

Botany Centella can be incorporated in the emulsion below 70°C, during the finishing process. Homogenization by means of suitable dispersion equipment (e.g. Ultra Turrax) is recommended.

Recommended dosage: Up to 1.0%
Aspect of the emulsion: off-white to light yellow depending on the concentration

Bibliography :

Hausen BM. : « Centella asiatica (Indian pennywort), an effective therapeutic but a weak sensitizer. » Contact Dermatit. 1993 Oct ; 29 (4):175-9.
Maquart FX : « Stimulation of collagen synthesis in fibroblast cultures by a triterpene extracted from Centella asiatica. » Connect Tissue Res. 1990 ; 24(2):107-20..

SOLVENTS	Solubility properties	Extract High Concentration	Observed at max concentration
Water	Slightly soluble	2%	Insoluble particles
Ethanol	Slightly soluble	2%	Insoluble particles
Glycerin	Soluble	10%	Clear solution
1,2-Propylenglycol	Slightly soluble	10%	Insoluble particles
1,3-Butylenglycol	Slightly soluble	5%	Insoluble particles
Isopropylmyristate	Practically insoluble	2%	Partly dissolved

PRODUCTS CATALOGUE

Botany Qualitative identification and quantitative determination for a constant quality

Botany Aloe Vera	Leaves	Aloe Barbadensis Miller	1:1 / 10:1 Gel [Polysaccharides, Minerals]
Botany Balm Mint	Leaves	Melissa officinalis	5% [Rosmarinic acid]
Botany Bearberry	Leaves	Arctostaphylos uva	>20% Arbutin
Botany Bilberry	Fruits	Vaccinium myrtillus	Extract 4:1 to 20:1, bleached or purple
Botany Bitter Orange	Bark	Citrus aurentium	Extract 4:1 to 20:1
Botany Blackcurrant	Fruits	Ribes nigrum	[Anthocyanins] and / or [organic acids]
Botany Butcher's Broom	Roots / Rhiz.	Ruscus aculeatus	10% [Ruscogenin, Neoruscogenin]
Botany Centella	Flower	Centella asiatica	10% [Asiaticoide and Madecassosides]
Botany Chamomile	Flower	Chamomilla recutita	1,2% [Apigenin]
Botany Echinacea	Root	Echinacea purpurea L.	Phenylpropanoids
Botany Fennel	Seeds	Foeniculum vulgare	Extract 4:1 to 10:1
Botany Ginkgo	Leaves	Ginkgo biloba	24% [Flavones glycosides], 6% [Diterpenes]
Botany Ginseng	Roots	Panax ginseng	5% - 30% [Ginsenosides]
Botany Grapes	Seeds	Vitis vinifera	95% [Polyphenols], 12% [Catechins]
Botany Green Tea	Leaves	Camelia sinensis	85% [Polyphenols], 50% [Catechins]
Botany Guarana	Seeds	Paullinia cupana	Water Extract, 4 to 20% Natural caffeine
Botany Harpagophytum	Roots	Harpagophytum procumbens	5% [Harpagoside]
Botany Hibiscus	Flower	Hibiscus sabdariffa	Polyphenols and Organic acids
Botany Horse Chestnut	Seeds	Aesculus hippocastanum	20% [Aescin]
Botany Nettle	Roots	Urtica dioica	0,85% [Sterols]
Botany Nettle	Leaves	Urtica dioica	Extract 2:1 to 10:1
Botany Olive	Leaves	Oleo europea	20% [Oleuropein]
Botany Passiflora	Plant	Passiflora incarnata	6% [Flavonoids], 1,5% [Vitexin, Isovitexin]
Botany Red Clover	Flower	Trifolium pratense L.	Isoflavonglucosides
Botany Rose Hip	Fruit	Rosa canina	10% [Ascorbic acid]
Botany Soy	Seeds	Glycine max	40% [Total isoflavones]
Botany White Tea	Leaves	Camelia sinensis	85% [Polyphenols]

BotanyFloral

Floral Waters, collected during the steam distillation of various plants, flowers and herbs.

BotanyFloral Artichoke	<i>Cynara scolymus</i>
BotanyFloral Blackcurrant	<i>Ribes nigrum</i>
BotanyFloral Camomile	<i>Chamomilla recutita L.</i>
BotanyFloral Dandelion	<i>Taraxacum officinale</i>
BotanyFloral Elderberry	<i>Sambucus nigra</i>
BotanyFloral Hamamelis	<i>Hamamelis virginiana L.</i>
BotanyFloral Hawthorn	<i>Crataegus oxyacanthoides</i>
BotanyFloral Hibiscus	<i>Hibiscus sabdariffa</i>
BotanyFloral Hops	<i>Humulus lupulus L.</i>
BotanyFloral Linden tree	<i>Tilia sp</i>
BotanyFloral Passion Flower	<i>Passiflora incarnate</i>
BotanyFloral Rose	<i>Aniba roseodora</i>
BotanyFloral Sarsaparilla	<i>Smilax officinalis</i>
BotanyFloral St John's Wort	<i>Hypericum perforatum</i>
BotanyFloral Sweet Clover	<i>Melilotus officinalis</i>

Keep your actives soluble in water !

Burgundy provides a range of high-quality plant extracts offered in response to market trends. This range has been specially designed where solubility plays an important role. This is allowed by a specific process during extraction and formulation. Ask us for more on our water-soluble or oil-soluble grades, designed for your specific need.

Because Nature Suits You Well

BotanySelect Advanced purification processes for the highest activity

BotanySelect Berries acids	Fruits	Vaccinium macrocarpon	20-90% white natural organic acids from Cranberry
BotanySelect Centella	Flower	Centella asiatica	36-44% [Asiaticoide], 44-66% [Asiatic acid and
BotanySelect Flower acids	Flower	Hibiscus sabdariffa	40-80% natural organic acids
BotanySelect GLA	Roots	Glycyrrhiza glabra L	98% [Monoammonium Glycyrrhizinate]
BotanySelect GLA 18	Roots	Glycyrrhiza glabra L	Enoxolone 98% [18 b glycyrrhetic acid]
BotanySelect GLAP 18	Roots	Glycyrrhiza glabra L	Potassium salt of 18 b glycyrrhetic acid
BotanySelect GLAS 18	Roots	Glycyrrhiza glabra L	Stearyl of 18 b glycyrrhetic acid
BotanySelect PGL	Roots	Glycyrrhiza glabra L	98% [Dipotassium Glycyrrhizate]
BotanySelect PGL/TW	Roots	Glycyrrhiza glabra L	98% [Dipotassium Glycyrrhizate]
BotanySelect Hamamelis	Leaves	Hamamelis virginiana L	assay in Hamamelitanins
BotanySelect	Roots	Harpagophytum procum-	20% [Harpagoside]
BotanySelect Horse Chestnut	Seeds	Aesculus hippocastanum	98% [Aescin]
BotanySelect	Aerial	Sabal serrulatum	90% [Fatty acids]

BotanyFluid Glycolic (G), Hydroglycolic (HG), Water (W) fluid extracts

BotanyFluid W Aloe Vera			
BotanyFluid G Bearberry	Leaves	Arctostaphylos uva	[Arbutin]
BotanyFluid W Burrow			
BotanyFluid G Burdock			
BotanyFluid G Butcher's Broom	Roots / Rhiz.	Ruscus aculeatus	[Ruscogenin, Neoruscogenin]
BotanyFluid G / HG Centella	Flower	Centella asiatica	[Asiaticoide and Madecassosides]
BotanyFluid G / HG Chamomile	Flower	Chamomilla recutita	[Apigenin]
BotanyFluid G Ginseng	Roots	Panax ginseng	[Ginsenosides]
BotanyFluid G Grapes	Seeds	Vitis vinifera	[Polyphenols], [Catechins], [OPC]
BotanyFluid W Guarana	Seeds	Paullinia cupana	
BotanyFluid G / W Hamamelis	Leaves	Hamamelis virginiana L	
BotanyFluid W Hibiscus	Flower	Hibiscus sabdariffa	Polyphenols and Organic acids
BotanyFluid G Horse Chest. 1%	Seeds	Aesculus hippocastanum	[Aescin]
BotanyFluid Hop	Flower	Humulus lupulus L.	
BotanyFluid G Marigold			
BotanyFluid Manzanilla	Flower	Chrysanthemum indicum	
BotanyFluid G Oat		Avena sativa	
BotanyFluid G Olive	Leaves	Oleo europea	[Oleuropein]
BotanyFluid Ratanhia	Roots	Krameria lappacea	
BotanyFluid Romero	Aerial	Rosmarinus officinalis	
BotanyFluid W Rose			
BotanyFluid Sabal Serrulata	Aerial	Sabal serrulatum	

Tell us « Your Product »

we can provide you with technical services to develop more unique products, such as:

- Co-development of products,
- Formulation assistance,
- Common technical document preparation
- Manufacturing contract (cryogenic grinding, formulating, blending, granulating, packing, integration of operations and full services offer, custom operations).

Our equipments can produce either extracts in powder forms, concentrate, or liquid forms using solid/liquid extraction equipment. The extraction solvent is then processed by vacuum distillation, vacuum concentration, evaporator or nano-filtration. Purifications are performed either by liquid/liquid extraction and solid/liquid separation or adsorption chromatography column in order to separate the isolated compounds with the finest precision. Semi-finished concentrates are dried after the last IPC for the powder forms, using multi-stage spray-drying equipment able to produce either fine or micro-granulated powders or vacuum belt dryer. Fluid extracts or tinctures are processed separately.



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