

The Grass Encyclopaedia














The aromatic encyclopedia for
flavourists, Botanists, Chemists,
Cosmetics experts, Perfumers, Phyto-aromatherapists,
And everyone keen on the subject.

User manual

Version 1.0c - August 2002



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THE GRASS ENCYCLOPAEDIA

The Grass encyclopaedia is an professional encyclopedia on natural products, their chemical components and their applications in aromatherapy, chemistry , cosmetics, perfumes, nutraceutic and phyto-aromatherapy.

PROCESSINGS

A. REASERCH PROCESSINGS (exclusive / inclusive)

- Botanical name- common name - synonyms
- Type of extract – used part
- Botanical family - chemical family - savour family - odour family
- Physico-chemical properties
- Indication / Contraindication (by trades)
- Active product – chemical component
- Registration N° (CAS, EINECS, FEMA, FDA, CE, RIFM, IFRA)
- Extracts containing these molecules
- Countries – producing area
- Extract's activity
- ...

B. SPECIFIC PROCESSINGS

- Legislation's service aid
- Knowledge on plant's extracts
- Bibliography
- Aid to create security data and technical forms (flash point, phrases R and phrases S, Symbols of danger)
- Security data and technical forms printing
- Typical case by trade (recipe, formula)
- Tip and quiz of the day
- ...



THE GRASS ENCYCLOPEDIA INSTALLATION





To install The Grass Encyclopaedia 1.0, start the programme SETUP.EXE present at the CD root. The set up is achieved in the asked directory (by default C:\Le Grass).

For updating, use the same computer, and the same directories; the updated files will be replaced by the installation.

THE LICENCE

The licence is created in the first set up. The versions 1.0a, 1.0b, 1.0c et 1.0d use the same licence.

<p>The set up creates an evaluation version of The Grass Encyclopaedia 1.0. →</p> <p>It is a complete version with all the functionalities of Grass Encyclopaedia, only, the use is limited to 30 days..</p> <p>When the programme is running, an evaluation window appears, it indicates you the number of remaining days to test the programme :</p>	
<p>Test the evaluation version →</p>	<p>Go on</p>
<p>Give up the test →</p>	<p>Exit</p>
<p>Licence registration</p> <p>The screen giving the authorization is displayed with the button "LI CENCE" of the evaluation screen or the screen "About the menu" of the sub-menu "?" from The Grass menu</p> <p>After payment of the licence, and to get an unlimited use, you must record your licence number. For that, you must to communicate to us the two codes which appear on this screen. We will pass on to you, the third code, to keyboard in the small window situated at the top and on the right of the screen. You must valid your keyboarding with the button:</p> <p> "Validation authorization n°". →</p> <p>After acceptance and validation of the licence, the programme is not limited any more , and the screens of evaluation disappear.</p>	<p>LICENCE</p> 

<p>Ask for your license n° →</p> <p>Follow the instructions in filling the next form, and send this document : →</p> <ul style="list-style-type: none"> • Either by post to : Acphytaroma S.a.r.l "The Grass Encyclopaedia 1.0" 1051, avenue de la Plantade 06530 Cabris France • Or by e-mail : claudemonin@online.fr or to : acphytaroma@online.fr, 	 
<p>Printing the form →</p>	
<p>Create a txt file Click on the button → and do a copy-paste of the file "FleGrass.txt" in the installation directory of The Grass Encyclopaedia 1.0.</p>	

Note :

After payment, the use of this software is limited to only one personal computer or to one working station, which is not used as an information retrieval centre. An adding payment is needed for a use on another computer or on another working station..

Only one software copy can be made in order to do a saving or a filing. The software can be transferred only in one hard disk.








All use of this software infringing principles above mentioned is not allowed within the scope of the licence.

THE GRASS MENU

The main menu permits to do researches by plants (botanical information) and by extracts (technical information):



The menu bar gives access to the following functions

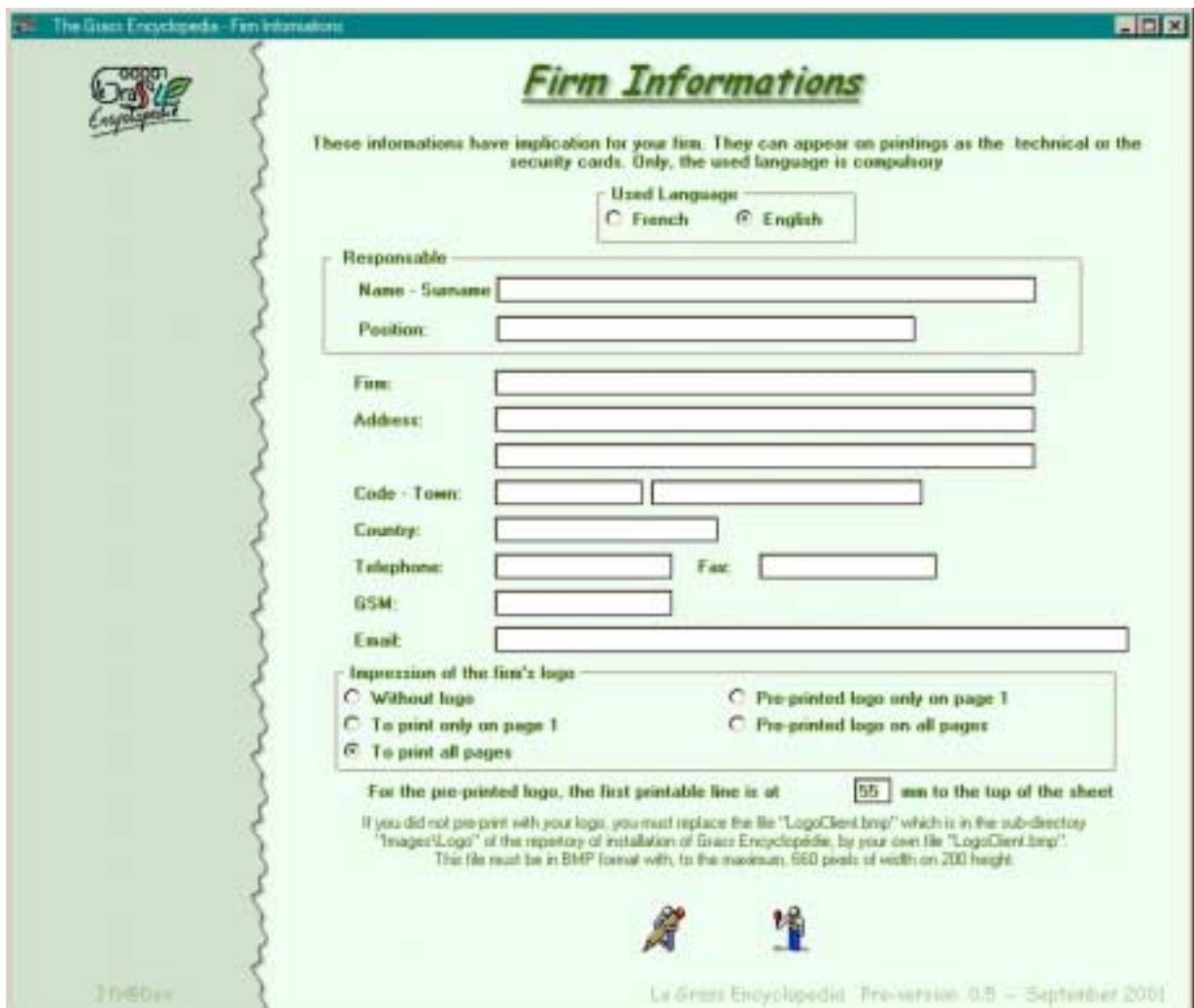
Menu	Sous-menu	Fonction
File	 Configure the printer	Configuration of your printer
	 Quit	To leave The Grass Encyclopaedia
Company, Language, Logo		<ul style="list-style-type: none"> • Information on your company for printing of the technical cards and security data forms • Language used for the program : french or english • Your logo for printing
Maintenance	 Reindex and files saving	Re-indexation and files saving
Warning		To warn for medical use
The team		Introduction of The Grass Encyclopaedia team
?	 The tips	Tips of the day
	 The Grass team	Introduction of The Grass Encyclopaedia team
	 About	The Grass Encyclopaedia
	 IDDN authentification	Computer authentification N°

COMPANY, LANGUAGE, LOGO

This screen groups three functions.

It allows :

- 1) The keyboarding concerning your company, in order to print the security data cards and the technical cards.
- 2) The choice of the used language for the programme.
- 3) The choice for printing the logo of your company.
 - a) without logo
 - b) with logo as bmp file. This file must be called "**Logo Client. bmp**", proportionate to a maximum 660 pixels wide and 200 pixels high and must be put in the sub-directory "**Pictures\Logo**" of your installation directory,
 - To print only on top of the first page,
 - To print on top of all pages.
 - c) On pre-printed paper. The distance of the first line to be printed must be given in mm regarding the top of the page,
 - Only the first is headed pre-printed,
 - All pages are headed pre-printed.



The Grass Encyclopaedia - Firm Informations

Firm Informations

These informations have implication for your firm. They can appear on printings as the technical or the security cards. Only, the used language is compulsory

Used Language
 French English

Responsible
Name - Surname: _____
Position: _____

Firm: _____
Address: _____
Code - Town: _____
Country: _____
Telephone: _____ Fax: _____
GSM: _____
Email: _____

Impression of the firm's logo
 Without logo Pre-printed logo only on page 1
 To print only on page 1 Pre-printed logo on all pages
 To print all pages

For the pre-printed logo, the first printable line is at mm to the top of the sheet

If you did not pre-print with your logo, you must replace the file "LogoClient.bmp" which is in the sub-directory "Images\Logo" of the repository of installation of Grass Encyclopaedia, by your own file "LogoClient.bmp".
This file must be in BMP format with, to the maximum, 660 pixels of width on 200 height.

La Grass Encyclopaedia - Pré-version 0.5 - Septembre 2001



DISCLAIMER SCREEN FOR THERAPEUTIC USES

This screen is a warning for medicinal uses of extracts and molecules. As for MSDS data sheets, indications are provided on the best of actual knowledge. The reader's attention is focused on the risks for using extracts and molecules as self medicine or other uses without Doctor or Specialist advices.

The Grass Encyclopaedia - Warning - Mise en Garde

Wednesday 07 November 2001

Warning - Mise en Garde

Disclaimer

Informations in Phytotherapy, nutraceutic and active cosmetic included in this cd-rom, are appropriated to most cases and not for particular circumstances. Authors and publishers refuse all responsibilities for problems caused by a wrong plant identification or a self-prescription.

Only doctor or specialist, who knows the past medical history of the person willing to follow a phytotherapy treatment, can give an authorized advice.

Avertissement

les informations de phytothérapie, nutraceutique et cosméto active contenues dans ce cd-rom sont adaptées à la plupart des cas et non dans des circonstances particulières. Les auteurs et éditeurs ne sauraient tenus être responsables d'éventuels problèmes dus à une mauvaise identification des plantes, ou d'emplois en auto-médication.

Seul l'avis du médecin ou spécialiste qui connaît les antécédents de la personne désireuse d'appliquer un traitement de phytothérapie, fait autorité.

La Grass Encyclopaedia - Pre-version 1.5 - September 2001



THE TEAM OF THE GRASS ENCYCLOPAEDIA

Phyto-aromatherapy :

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Pharmacist practitioner - Expert in phyto aromatherapy - Grasse

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Director of creation
ROBERTET - Grasse

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Cosmetic formulation
ROBERTET - Grasse

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Director of application cosmetic department
ROBERTET - Grasse

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Professor ENSC Montpellier

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CAVALLIER - Grasse

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Computer, software:

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Director of development
Jfr@Dev - Joué-lès-Tours

Supervisory committee:

ROBERTET - Grasse



IDDN AUTHENTICATION

This programme was registered to APP, agency for the protection of programmes (<http://app.legalis.net/>), by the creation of an international number at InterDeposit (<http://www.iddn.org/>)



INTERNATIONAL PROTECTION OF AUTHORS' RIGHTS AND NEIGHBORING RIGHTS

InterDeposit, an international federation for data-processing and information technologies, set up in Geneva on 10 January 1994, is made up of the various organisations concerned by the protection of intellectual property rights over digital works.

InterDeposit has put together an international system for the identification of works - IDDN (InterDeposit Digital Number) - offering rightholders the possibility of protecting and exercising their rights over any type of digital creation (music, sound, photographs, moving and still pictures, logos, texts, software, data bases, web sites, etc) regardless of format.

The IDDN system is compatible with other standards and can be handled either directly or via the intermediary of third parties (publishers, literary agents, collective management companies, etc).

In addition, InterDeposit has entrusted one of its founder members, the [Agency for the Protection of Programs Paris](#), with the task of carrying out checks for any unlawful use or reproduction on the Internet.

1. Principle of protection by the IDDN system

After the on-line referencing of a work, the rightholder obtains an IDDN certificate to be attached to the work, containing in particular the international IDDN number, the title of the work, the special conditions of use and exploitation and any original "sources" of creation. Chain uses of digital works may then be made in compliance with intellectual property rights, thanks to the identification at each stage of the rightholders, their respective creative contributions and the conditions they have stipulated for the use of their work. The international IDDN number is designed to accompany the work in all its reproductions and representations, and the rightholder can thus always be identified.

It should be noted that article 12 of the international copyright treaty, adopted on 20 December 1996 at Geneva by the Diplomatic Conference held by the World Intellectual Property Organization (WIPO), provides for the application of legal remedies against any person who removes or alters any electronic rights management information and identification systems. This provision gives full force of law to the IDDN system.

2. Detection of the unlawful use or exploitation of works - settlement of disputes

Thanks to automatic search systems and the intervention of its authorised agents, the APP ensures that infringement reports are drawn up to provide material proof of any offence. This judicial evidence allows conventional court proceedings to be initiated if the infringers refuse the on-line WIPO arbitration that is normally chosen for the settlement of disputes, in accordance with the IDDN Charter whose enforcement is accepted by cybernauts when they consult an IDDN referenced work.

Research by plant

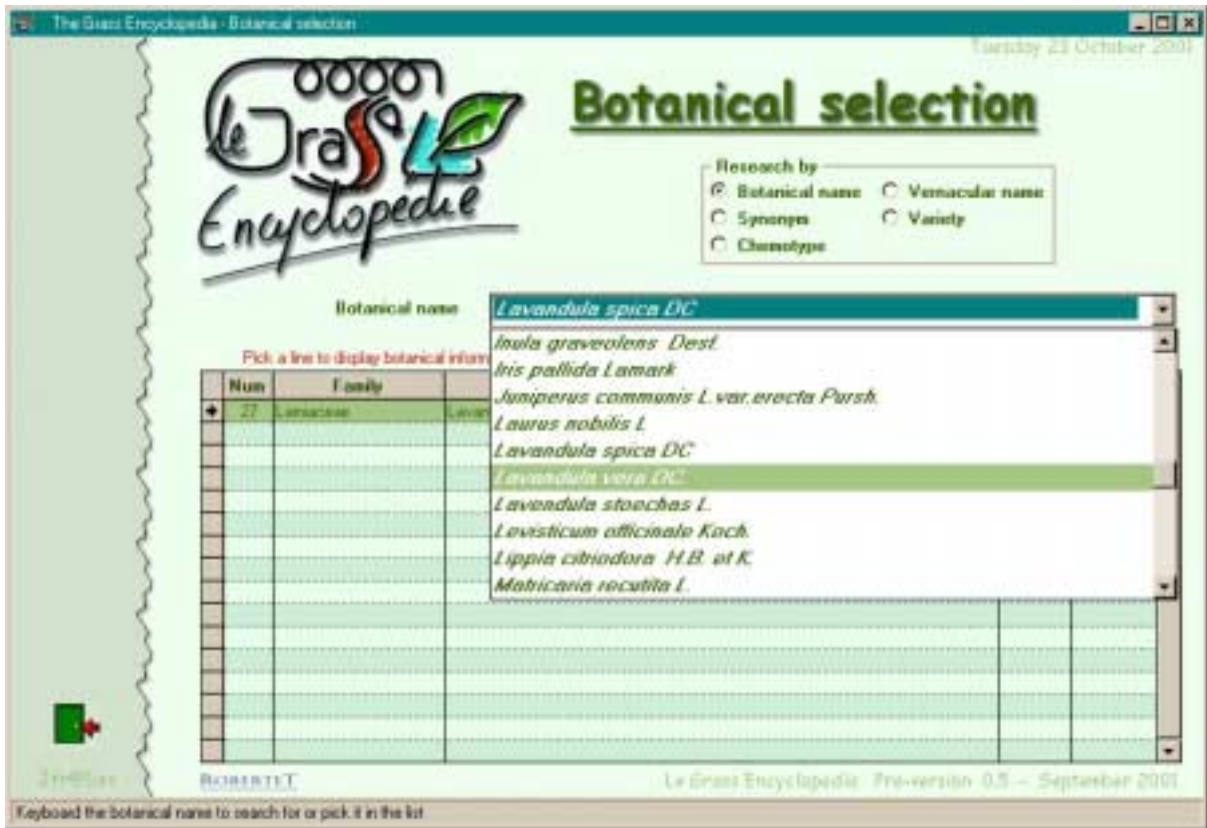


BOTANICAL RESEARCH

You can make a botanical research by : 5 different types :

- Botanical name (latin name),
- Synonym,
- Chemotype,
- Vernacular name or common name in several languages,
- Variety.

Just choose the type of research, then to pick the name in the proposed combo list. This combo list is function of the type, chosen.



The system displays the selection, chosen in the table.

To display botanical information of the chosen plant, in which you are interested, you must select it and,

either double-click on the line, or click on the button .



**Description****BOTANICAL FORM : DESCRIPTION**

The window "The plant" informs about the Latin name, the botanical name, the French name and the English name. This window is always present.

The plant 104
Botanical name: *Angelica officinalis Hoffmann*
Botanical family: Apiaceae
French name: Angélique English name: Angelica

Description and history
Herbaceous biennial plant, 1.5 to 2 m high, developing its biological cycle in 3 years
Root: Big, spindle-shaped, brown with white bark. Very aromatic root.
Stem: in 3rd year the plant stops its vegetative development and give out a strong stem, reddish, robust, fluted, hollow and split.
Leaves: large, alternate, incised in large dentate leaflets, sheathing petiole at the bottom
Flowers: white yellow-colored, umbelate from 20 to 30 small flowers
Fruit: flattened di-some, winged on the edge.

Plant, unknown by Ancients. Its name comes from Archangel Raphael who, according to legend, brought its root to Charlemagne, Emperor of Occident, to rescue its army from the plague. Scandinavian people cultivated it soon, and it is found in the 19th century in manasteries of Central Europe, always to fight plague and also to make an elixir of life.

Growing
Biennial plant, angelica shapes a rosette of leaves which spends winter and goes up in stem in order to hibernate on the following summer. It is possible to preserve the stock, a supplementary reason in cutting out its scape.
Climate: all types of Central European climate. Can be found in wild state, on islands in the south west of Sweden.
Soil: sticky, humid, slightly acid (pH 5,5)
Multiplication: only by seeds, immediately taken as the ripe plant in July, because they quickly lose their power of germination. 1 to 2 kg seeds/ha, are necessary for a direct sowing in august. If sowing in nursery, young plants, which appear 2 weeks later, can be transplanted in fields with a space of 40 cm and 70 cm line spacing.
Harvesting: roots are dug out in autumn of the first year, with a mechanical tiller.
Phyto-sanitary protection:
1) Fungus:

The button

**Description**

gives three kinds of information:

- 1) Description on :
 - the plant,
 - the varieties
 - the chemotypes.
- 2) History.
- 3) Cultivation :
 - habitat, type of soil,
 - cultivation, propagation,
 - the production, yields/ha ...,
 - period of flowering,
 - harvesting,
 - and phytosanitary protection.



Extracts BOTANICAL FORM: EXTRACTS OR MOLECULES

Here is the list of the extracts or molecules of the selected plant, which are processed in **The Grass Encyclopaedia 1.0b**. You can read information about the extract or the molecule, in double-clicking on the selected line.



Other names BOTANICAL FORM : OTHER NAMES

On this screen you can find three lists:

- 1) The Latin synonyms.
- 2) The chemotypes and the varieties.
- 4) The common name in several nationalities.

Remarks Select a line "R" for the remarks on the synonyms, the variety or the vernacular name

De "fine lavender" on humid and cold soils . North oriented.

Synonymes list

Synonym	Rem
Lavandula angustifolia Miller var. <i>delphinensis</i>	R
Lavandula angustifolia Miller var. <i>fragrans</i>	R
Lavandula officinalis Chaix	

Chemotypes and varieties list

Type	Chemotype or variety	Rem

Vernacular names list

Language	Vernacular name	Rem
Hebrew	Azobynon	
Italian	Lavanda	
Portuguese	Lavanda	
Russian	Lavanda	
Spanish	Lavanda, espliego	
French	Lavande	
Turkish	Lavanta	
German	Lavendel	

The "R" in the column "Rem" of the lists, indicates a note which is displayed in the window "Remarks" if you select the line containing a note "R".



Bibliography

BOTANICAL FORM : BIBLIOGRAPHY

On this screen you will find a list, not exhaustive, of bibliography and articles concerning the plant.



Photograph

BOTANICAL FORM: THE PICTURES

This screen displays the picture(s) of the plant, its culture or its production.



Research by extract

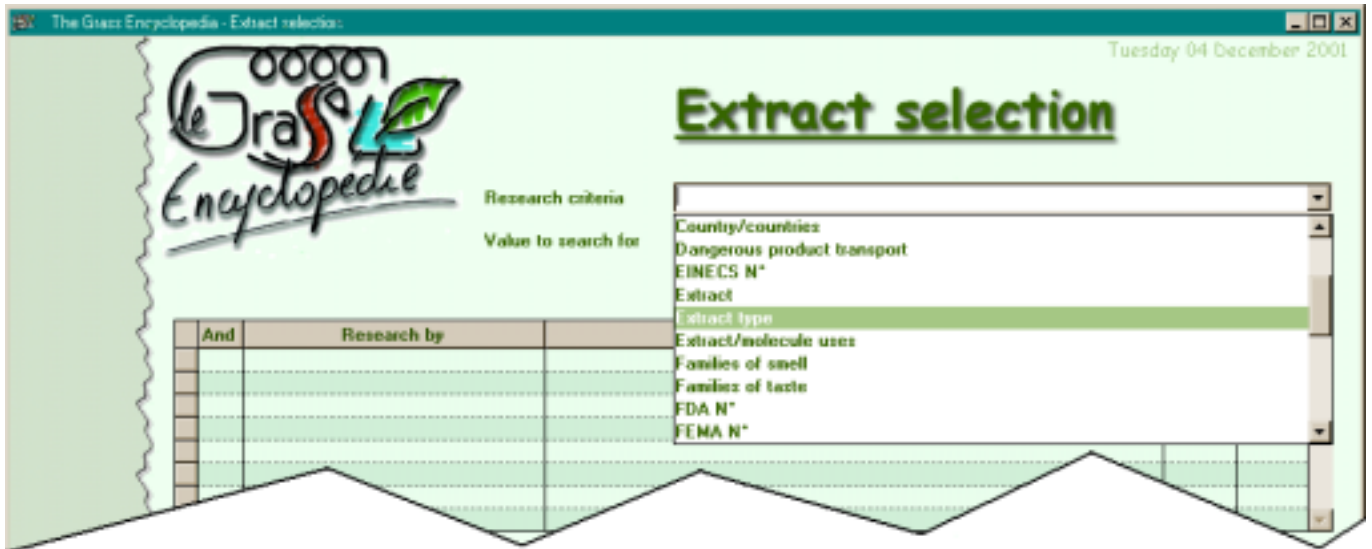


EXTRACTS OR MOLECULES SEARCH

Criteria's research are the following :

- Bibliography
- physico-chemical data
- Presence of the molecule
- Extract
- Chemical family
- Flavour family
- Odour family
- Recipe, formula
- Class of molecule
- Indication / Contra-indication
- Molecule
- RI FM monograph
- CAS N°
- CE N°
- EINECS N°
- FDA N°
- FEMA N°
- Perfume note
- Used parts
- Country of origin
- Hazards phrases
- Caution before use
- Property
- Hazardous products transportation
- Apparatus type
- Announcement type
- Hazard type
- Extract type
- Product type
- Use by extract/molecule

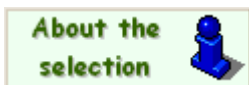
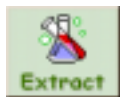
Just you choose a research's criteria, then you pick a value to research, regarding this criteria in the proposed combo list.



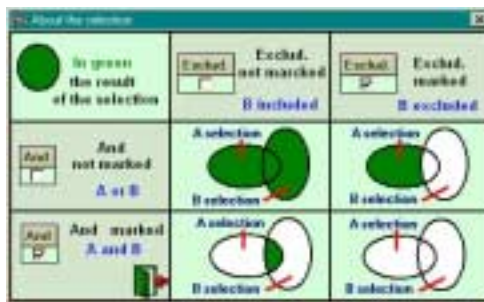
The screen will display extracts or molecules selected by the search criteria



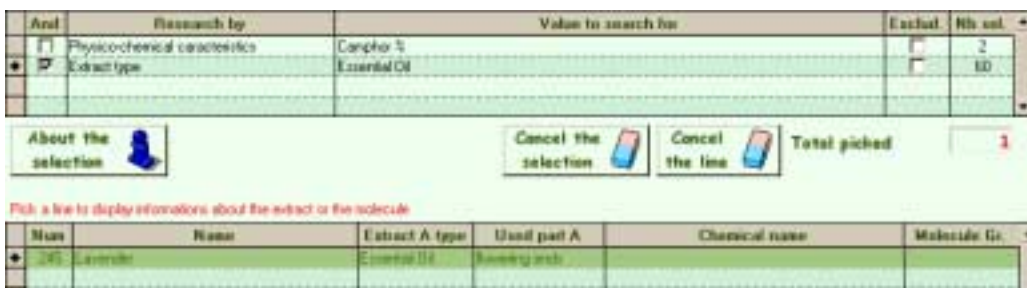
To see information about the selected extract or molecule, you must double click on his line, or click on the button :



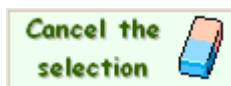
THE SELECTION : INCLUSION / EXCLUSION



For using the 'AND' selection, you must tick **And** , otherwise, selection is 'OR'



cancel the selected ligne



cancel the selection



EXTRACT / MOLECULE FORM: DESCRIPTION

On this screen you will find general information about the extract or the molecule : codification, chromatography, spectrography and various information.

The window molecule, only gives information about molecules.

**Botanical**

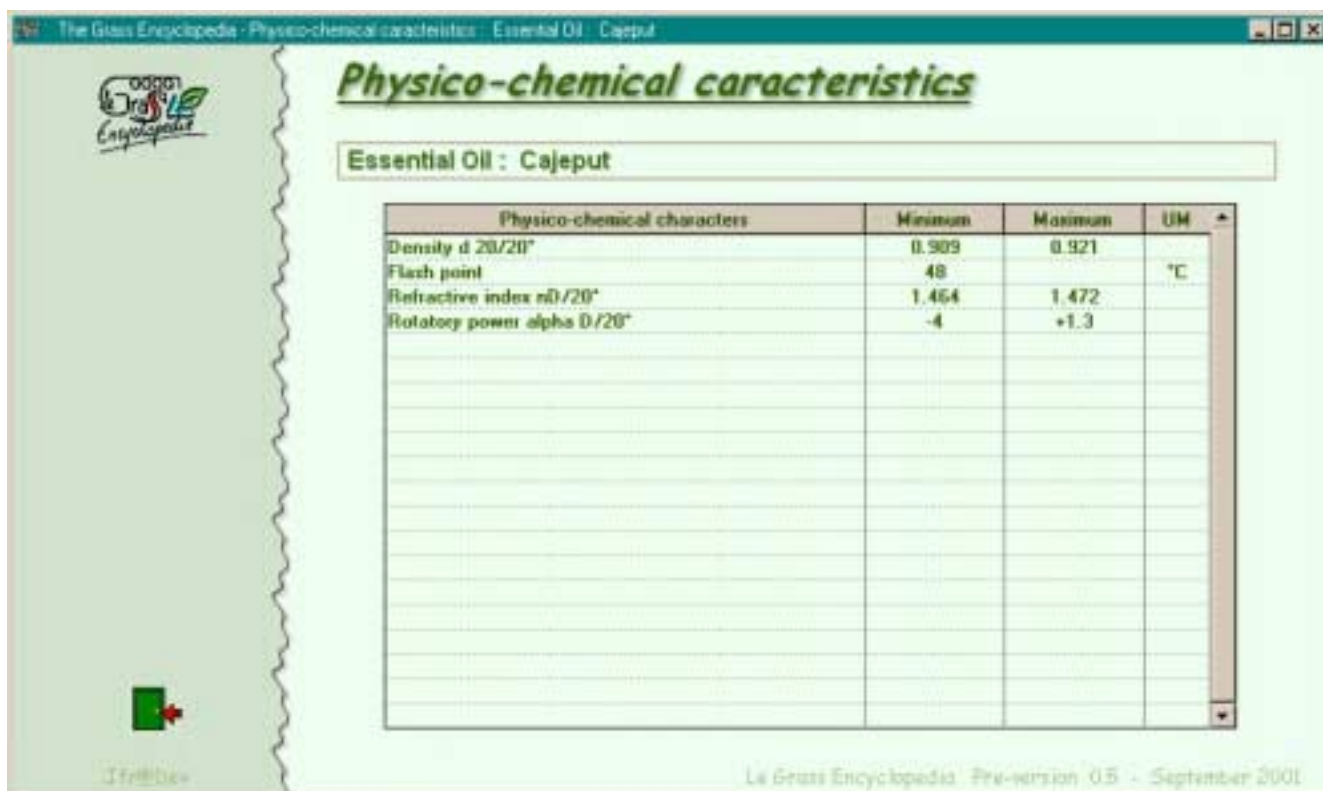
EXTRACT / MOLECULE FORM: BOTANY

This button allows displaying botanical information on the plant, from which the extract or the molecule is obtained (see the paragraphs in the botanical form).

**Physico-chemical**

EXTRACT / MOLECULE FORM: PHYSICO-CHEMICAL CHARACTERISTICS

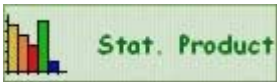
On this screen you will find the physico-chemical characteristics of extract / molecule.



The screenshot displays the 'Physico-chemical characteristics' window for 'Essential Oil: Cajeput'. The window title is 'The Grass Encyclopaedia - Physico-chemical characteristics: Essential Oil - Cajeput'. The main content area shows a table with the following data:

Physico-chemical characters	Minimum	Maximum	UM
Density d _{20/20} ^o	0.909	0.921	
Flash point	48		°C
Refractive index n _D ²⁰	1.464	1.472	
Rotatory power alpha _D ²⁰	-4	+1.3	

The interface also includes a logo on the left, a 'Jfr@Dev' signature, and a footer indicating 'Le Grass Encyclopaedia - Pre-version 0.5 - September 2001'.

**EXTRACT / MOLECULE FORM: PRODUCING COUNTRIES AND STATISTICS**

On this screen you will find the statistics of production by countries of extract / molecule.

The Grass Encyclopaedia - Producing countries and statistics - Essential Oil - Output

Producing countries and statistics

Essential Oil : Cajeput

Country	Region	Year	Quantity	Unit	Price	Currency
INDONESIA	Java, Sumatra, Molucca, Celebes, Bali	2001	150	T	20	€/Kg
NEW CALEDONIA						
VETNAM			2	T		
WORLD			200	T		

The Grass Encyclopaedia - Pre-version 0.5 - September 2001

**Composed of** EXTRACT FORM: CHEMICAL COMPONENTS

This button only appears for extracts.

On this screen you will find the main components of the extracts, according to the producing countries. It is possible to select this array of data, by molecule name, by values in % minimum or % maximum of the molecules contained in the extract.

The screenshot displays a software window titled "The Grass Encyclopedia - Chemical components list: Essential Oil: Cajeput". The main heading is "Chemical components list". Below the heading is a text box containing "Essential Oil : Cajeput". A table lists chemical components with columns for "Molecule", "% Mini", "% Maxi", and "Comments".

Molecule	% Mini	% Maxi	Comments
INDONESIA			
1,8-cineole	50	65	
Azulene			
Composés soufrés			
Limonène			
Nerolidol			
Pinène alpha			
Terpényl alpha esters			
Terpinol alpha (-)	30		
Valdifnol			

**Exist****MOLECULE FORM : LIST OF EXTRACTS CONTAINING THE MOLECULE**

This button only appears for molecules

This screen displays the list of extracts, according to the producing countries production, which contain this molecule and in what proportion. It is possible to select this array of data by extract name, by values in % minimum or % maximum of the molecules contained in the extract.

Country	Extract	% Mini	% Maxi	Comments
COMOROS (ISLANDS)	Basil estragole	0.15	0.5	
EGYPT	Basil linalool	0.2	1.5	
CHINA (POP. RÉP.)	Camphre	51.6		
RUSSIA	Coriander seeds	4	6	
FRANCE POPULATION QUALITY	Lavender		0.5	
SPAIN	Rosemary	13	18.5	
SPAIN	Spike lavender	8	20	

**Fragrance****EXTRACT / MOLECULE FORM: ODOUR**

On this screen you will find information on odour extract / molecule :

- The odour family,
- The olfactory description
- The use
- The possible associations
- The main molecules responsible for the odour

The screenshot shows a web browser window titled "The Grass Encyclopedia - Fragrance : Essential Oil : Ylang ylang". The page content is as follows:

- Header:** "Fragrance" in a large, stylized font.
- Title:** "Essential Oil : Ylang ylang" in a text box.
- Perfume note:** A group of radio buttons with the following options:
 - Top note
 - Middle note
 - Bottom note
 - Top and middle note
 - Middle and bottom note
 - Top, middle and bottom note
- Flavour family:** "Florale jasminée" in a text box.
- Olfactory description:** "Powerfull, pleasant, sweet jasmine-floral, the ylang EO is almost a perfume as such. It has been called wrongly "jasmine of the poor""
- Use:** "In high class floral, floral-aldehyde and Oriental perfumes as this EO brings an powerfull floral-jasmine top note. Used as a modifier in violets and lilacs."
- Association:** "Matchez well with some woody notes (rosewood, vetiver), floral (gardenia, tuberose, mimosa, jasmme, rose), balsamic (opoponax, Peru balsam) and other raw materials such as salicylates, aldehydes, etc..."
- Fragrant principle:** "Methyl benzoate, benzyl acetate"

At the bottom left, there is a logo for "Jfr@Dev" and the name "ROBERTET". At the bottom right, it says "Le Grass Encyclopedia version 1.0a - November2001".



Flavour

EXTRACT / MOLECULE FORM: FLAVOUR

- On this screen you will find information on the flavour of extract / molecule :
- The flavour family
- The description
- The traditional and industrial uses





Production

EXTRACT / MOLECULE FORM: MANUFACTURING PROCESS

- On this screen you will find manufacturing processes of extract / molecule :
- The apparatus type,
- The used solvent,
- The process description,
- The distillation length,
- The yield on fresh and on dried raw material in % mini and % maxi.



Apparatus

The button allows to know the manufacturer of this apparatus type, as well a draw or a picture of the equipment.





Property

EXTRACT / MOLECULE FORM: PROPERTIES

On this screen you will find the properties of extract / molecule according to the different trades :

- The flavour expert,
- The botanist,
- The chemist,
- The cosmetics expert,
- The nutraceuticals expert,
- The perfumer,
- The phytotherapy expert.

All trades cannot be present.

Information on the properties are the following :

- Use by internal application, by external application, by internal and by external application, in vitro, in vivo or in vitro and in vivo,
- The description and the cause of the property,
- If the property comes from the tradition, or if it has been scientifically proved.

The screenshot shows a software window titled 'The Grass Encyclopaedia - Properties - Essential Oil - Cajeput'. The main heading is 'Properties' and the specific entry is 'Essential Oil : Cajeput'. A table lists properties with columns for Trade, Origin, Use, and Property. Below the table, a section for 'Phyto-aromatherapist' provides more details, including a 'Use' section with radio buttons for 'External', 'Internal', 'The two', and 'Purposeless'. The 'Property' is listed as 'Bronchitic tree anti-inflammatory', 'Tradition' is selected, and the 'Description' is 'Due to hydrocarbons terpenic components'. The footer of the window reads 'Le Grass Encyclopaedia - Pré-version 0.5 - Septembre 2001'.

Trade	Origin	Use	Property
Phyto-aromatherapist	Tradition	Internal	Bronchitic tree anti-inflammatory
Phyto-aromatherapist	Scientific	The two	Expectorant
Phyto-aromatherapist	Scientific	The two	Mucolytic
Phyto-aromatherapist	Tradition	The two	Pulmonary antiseptic
Phyto-aromatherapist	Scientific	The two	Rhinopharynx decongestant
Phyto-aromatherapist	Scientific	The two	Bronchopulmonary decongestant

Indications

EXTRACT / MOLECULE FORM: INDICATIONS / CONTRAINDICATIONS

On this screen you will find indication and / or contraindication of extract / molecule according to the different trades :

- The flavour expert,
- The botanist
- The chemist
- The cosmetics expert
- The nutraceutics expert
- The perfumer
- The phyto-aromatherapy expert

All trades cannot be present

Information on indications / contraindications are the following :

- Use by internal application, by external application, by internal and by external application, in vitro, in vivo or in vitro and in vivo,
- Contraindication with a danger signal,
- The subject for which indication or contraindication exists,
- The description or the cause of this indication or contraindication.

A warning red light indicates if, for this extract / molecule, there is a contraindication and a red danger signal



will flash for this contraindication, otherwise the danger signal is green



The screenshot shows a software window titled 'The Grass Encyclopaedia - Indications / contraindications'. The main heading is 'Indications / contraindications' with a warning triangle icon. Below it, the search term 'Essential Oil : Cajepout' is entered. A table lists various trades and their associated indications and contraindications. The table has columns for Trade, Type, Use, Indication, and Danger. One row is highlighted with a red background, indicating a contraindication with a danger signal. Below the table, there is a section for 'Phyto-aromatherapist' with a 'Use' dropdown menu (External, Internal, The two, Purposeless) and a 'Contraindication' field containing 'Contra indicated under 30 months'. A 'Danger signal' checkbox is checked. The 'Subject' field contains 'Children under 30 months'. The 'Description' field contains text about the possibility of convulsions in high doses and the effect of large doses on epileptic seizures.

Trade	Type	Use	Indication	Danger
Phyto-aromatherapist	Indication	Internal	Cough with phlegm	<input type="checkbox"/>
Phyto-aromatherapist	Indication	The two		<input type="checkbox"/>
Phyto-aromatherapist	Indication	Internal	Local treatment of the infections of the mucous membrane of the nose	<input type="checkbox"/>
Phyto-aromatherapist	Indication	The two	Treatment of posttraumatic early shock	<input type="checkbox"/>
Phyto-aromatherapist	Indication	External	Treatment of the conjunctiva during simple respiratory disease such as cold	<input type="checkbox"/>
Phyto-aromatherapist	Contra-indic	The two	Contra indicated under 30 months	<input checked="" type="checkbox"/>
Phyto-aromatherapist	Contra-indic	Internal	Contra indicated during pregnancy and breast feeding	<input type="checkbox"/>
Phyto-aromatherapist	Contra-indic	Internal	Contra indicated in asthmatic states of convulsions or depressive states	<input type="checkbox"/>

Phyto-aromatherapist Use: External Internal The two Purposeless

Contraindication:

Danger signal

Subject:

Description: Possibility of convulsions in high doses, that essential oil is anesthetic (0.50, 1.7 mg/kg, Rat, intraperitoneal application). Large doses of 1.8 Ci/ml, may be proved to cause epileptic fit, by inhibition of oxygen consumption and ionic gradients of the encephalic level.



EXTRACT / MOLECULE FORM: CAUTION BEFORE USE


On this screen you will find caution before use of extract / molecule according to the different trades :

- The flavour expert
- The botanist
- The chemist
- The cosmetics expert
- The nutraceutics expert
- The perfumer
- The phyto-aromatherapy expert


All trades cannot be present.

Information on caution before use are the following:

- Use by internal application, by external application, by internal and by external application, in vitro, in vivo or in vitro and in vivo,
- The description or the cause of the property,
- If the property comes from the tradition, or if it has been scientifically proved

A warning red light  indicates if, for this extract / molecule, there is a contraindication and a red danger signal



will flash for this contraindication, otherwise the danger signal is green .

The screenshot shows a software window titled 'The Grass Encyclopaedia - Caution before use - Essential Oil - Cajuput'. The main heading is 'Caution before use' with a warning triangle icon. Below it, the product is identified as 'Essential Oil: Cajuput'. A table lists various trades and their associated cautions and causes.

Trade	Product type	Caution before use	Cause
Phyto-aromatherapist	Essence with 25 E.O.	Do not apply on breast during breast feeding	There is a risk for respiratory depression
Phyto-aromatherapist	Essence with 25 E.O.	Do not apply on a large surface of skin	Respiratory depression in very high dose
Flavourist	Baked Goods	Good Manufacturing Practices	
Flavourist	Beverages (nonalcoholic)	Good Manufacturing Practices	
Flavourist	Hard candy	Good Manufacturing Practices	
Flavourist	Ice cream	Good Manufacturing Practices	
Phyto-aromatherapist	All kind of general forms	Regarding the state law, to the contraindication chapter	Please report to contraindication

Below the table, there is a section for 'Phyto-aromatherapist' with a 'Use' dropdown menu (External, Internal, For tea, Papercakes). A 'Caution before use' field contains 'Do not apply on breast during breast feeding' with a flashing red and green light icon. A 'Signal de danger' field contains 'Cause: There is a risk for respiratory depression to go on the milk of the mother.' Below this are fields for 'Dose min', 'Dose max', 'I.Product' (Prepared with 25 E.O. essential), and 'Application on' (Inhaled, Used in, Lactating women).



Use/card

EXTRACT / MOLECULE FORM: APPLICATIONS AND RECIPE CARDS

On this screen you will find applications and some examples: the recipe cards of extract / molecule
According to the different trades :

- The flavour expert
- The botanist
- The chemist
- The cosmetics expert
- The nutraceuticals expert
- The perfumer
- The phyto-aromatherapy expert

All trades cannot be present.

Information on the application are the following :

- Use by internal application, by external application, by internal and by external application, in vitro, in vivo or in vitro and in vivo,
- The description of the product,
- The person being able to use this product,
- The body's part being able to receive this product,

Information on the recipe part are the following:

- The property of this preparation,
- The description and its operating conditions
- The list of the extracts going in this card, and the mini-maxi quantities, with possible notes on the used extracts.

The screenshot shows a software window titled 'The Grass Encyclopaedia - Applications and recipe cards - Essential Oil - Cajepul'. The main title is 'Applications and recipe cards'. Below it, a search bar contains 'Essential Oil : Cajepul'. There are several sections:

- Trade Table:** A table with columns 'Trade', 'Use', 'Description', and 'Use'. One row is visible for 'Phyto-aromatherapist' with 'Use: Cough with phlegm, adults and children over 15 years old', 'Description: Cough with phlegm. Symptomatic action.', and 'Use: Internal'.
- Phyto-aromatherapist Section:** Includes a 'Use' field with the text 'Cough with phlegm, adults and children over 15 years old', a 'Description' field with 'Cough with phlegm. Symptomatic action.', and a 'Subject' field with 'Adults and children over 15 years'. There are also 'Body part' and 'Dial water' fields.
- Card Table:** A table with columns 'Card' and 'Description'. One row is visible for 'Soap' with 'Description: PROCESS ; Depends on occupation (pharmacist or industrial)'.
- Extract/Molecule Table:** A table with columns 'Extract/Molecule', 'Min', 'Max', 'IIM', 'DS Pa', and 'Convert as used extract'. Rows include 'Ess. oil', 'Cajepul', 'Candy', 'Liquid sweet bay', and 'Symp. (pharmaceutical)'. The 'Cajepul' row has 'Min: 0.00', 'Max: 1.00', and 'IIM: g'. The 'Symp. (pharmaceutical)' row has 'Min: 200.00', 'Max: 200.00', and 'IIM: g'.



Risks

EXTRACT / MOLECULE FORM: HAZARDS

On this screen you will find the list of the types of risks, as well the risks due to the use of extract / molecule :

Information on risks are the following:

- The type of risk, (European directives, I FRA, etc.)
- The risk
- The type of announcement
- The cause of the risk
- The limit to use in the final product in ppm.

The screenshot shows a software window titled 'The Grass Encyclopaedia - Risk : Essential Oil : Cajeput'. The main area is titled 'Risks' and contains a search bar with 'Essential Oil : Cajeput' entered. Below the search bar is a table with three columns: 'Risk type', 'Risk', and 'Cause'. The table contains the following data:

Risk type	Risk	Cause
• European Directives cosmetic	No constraint	
Standard IFR: Rinsed products of the skin	No sds presently listed	
Standard IFR: Products remaining on the skin	No sds presently listed	
Standard IFR: Products not coming into contact	No sds presently listed	

Below the table is a form with the following fields:

- Risk type: European Directives cosmetic
- Risk: No constraint
- Announcement: (empty)
- Cause: (empty)
- Last in the finished product: (empty) ppm

The bottom right corner of the window displays 'La Grass Encyclopaedia - Pre-version 1.0c - September 2001'.



Phrases R

EXTRACT / MOLECULE FORM: PHRASES R AND PHRASES S

On this screen you will find the phrases of risk R and the phrases of security S of extract / molecule. Information on the phrase R are the following:

- The code 'R..',
- the danger,
- the R phrase,
- the symbol and its code.

Information on the phrase S are the following :

- the code 'S..',
- the phrase S
- The type of instruction, optional, recommended, compulsory.

Code R	Phrase R	Symbol	Danger
R10	Flammable		
R22	Harmful if swallowed	Xi	Harmful

Code S	Instructions phrase S	Instruction type

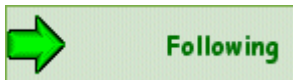
**Safety/Tech C****EXTRACT / MOLECULE FORM: MATERIAL SAFETY DATA SHEET**

On this screen you will find the compulsory information of the security data form which must go with the extract and the molecule .

You can find the 16 items of the form:

1. The identification of the product,
2. The composition and information on the components, with its or their CAS n° and CE n°,
3. The identification of dangers
4. the first aids.

The button




allows to get the following points:


5. The measures to fight against fire,
6. The measures to take in case of accidental dispersion,
7. The handling and the storage of the product,
8. The expository control and the individual protection,
9. The physical and chemical properties,
10. The stability and the reactivity,
11. The toxicological information,
12. The ecological information,
13. The destruction,
14. the transport,
15. The European regulation information, the symbol, The phrases R and the phrases S, associate,
16. The information of warning.

The screenshot shows a web-based form titled "Material safety data sheet" for "Essential Oil : Cajeput". The form is divided into several sections:

- 1 - Identification:** Includes fields for Product code, Supplier, Address, Postcode and Country, and Telephone.
- 2 - Composition / Informations about the components:** Contains a text description: "Essential Oil obtained by distillation with the water vapor of the Freshly pruned small branches of Melaleuca leucadendron L." and fields for CAS N° (05488-37-1) and CE N° (275a).
- 3 - Identification of dangers:** Lists "Flammable" and "Hazard if swallowed".
- 4 - First help:** Provides instructions for "CONTACT WITH THE SKIN", "CONTACT WITH THE EYES", and "INGESTION".


On the left side of the form, there is a sidebar with buttons for "Technical card", "Supplier", "Following" (with a green arrow), and "Printing". A disclaimer text reads: "This card in no case does not exempt the user to know and to apply all the texts regulating his activity. He will take under his own responsibility the precautions going with the use of this product".

The button  **Technical card** allows to go to the technical sheet, of extract / molecule.

The button  **Supplier** allows to create your own suppliers, the code of the product and its address.

These information appear on the security data form. If you are the producer of this product you Can put your chosen code and the address of the production department.



The button  **Printing** allows to print your own security data form, with the information of your supplier or the information of your products.

The logo of your company can appear on your security data form (see the paragraph **Company, Language, Logo** on the menu's bar of the screen **Menu Le Grass**).

**Technical card****EXTRACT / MOLECULE FORM: TECHNICAL SHEET**

On this screen you will find the compulsory information of the technical form, which must go with the extract or the molecule.

You can find the 7 items of the form :

1. The designation of the product,
2. The references,
3. The analytical characteristics

The button

**Following**

allows to obtain the following points:

4. The general and regulation information: CAS n°, CE n°, EI NEC n°, FMA n° and FDA n°
5. The storage conditions,
6. The conservation length,
7. the warning information.

Technical sheet

Essential Oil : Cajeput

1 - Mention:

Product code: 30222
Supplier: My supplier
Address: 1, street here
Postcode and ZIP: NOWHERE
Country: Telephone:

2 - References:

Aspect: Mobile liquid
Colour: Green to yellow green-coloured
Description:

3 - Analytical characteristics:

Density at 20/20°	0.893 - 0.921
Flash point	48°C
Refractive index nd(20°)	1.464 - 1.472
Rotatory power alpha D(20°)	-4 +1.3

La Grass Encyclopaedia - Pré-version 0.5 - Septembre 2011

The button

**Safety sheet**

allows to go to the security data form.

The button

**Printing**

allows to print your own technical form, with information of your supplier, or information of your products.

The logo of your company, can appear on your own technical form (see the paragraph **Company, Language, Logo** on the menu's bar of the screen **Menu The Grass**).



Bibliography

EXTRACT / MOLECULE FORM: BIBLIOGRAPHY

On this screen you will find a list, non exhaustive, bibliographies and articles concerning extract / molecule.

The screenshot shows a software window titled "The Grass Encyclopaedia - Bibliography - Essential Oil - Cajuput". The main heading is "Bibliography". Below it is a search box containing "Essential Oil : Cajuput". A table lists bibliographies with columns "N°" and "Title of the bibliography". The table contains four entries, with the second one highlighted. Below the table are input fields for "Title", "Article", "Volume", "Chapter", "Page start", and "Page to". The footer of the window reads "La Grass Encyclopaedia - Pré-version 0.02 - Septembre 2001".

N°	Title of the bibliography
13	Commission de Nomenclature du Soudical National des Fabricants et Importateurs (I.R.E. et Produits Associés) N°
18	Fornacek V. et Kubeczka E.H. 'Essential oils analysis by capillary GC and Carbon 13 NMR Spectroscopy' John W
27	Geerthens E. 'Essential oils' (1940-1952) 5 tomes - Van Nostrand.
22	Gildemeister & Hoffmann 'Die Aetherischen öle' - 4ème édition (revue et complétée par W. Treibs) 7 tomes, 10 vol
62	Srivasa R. Srivastava 'Atlas of essential oils (IR, GC, MS)' New York USA, (1988)



THE LISTS

A. Licence request



B. Material safety data sheet printing



Le Grass Encyclopédie

Encyclopédie en ligne consacrée à de nombreuses espèces d'herbes et de leurs applications dans le domaine de l'aromatique et de la phytothérapie. Ce site contribue à la diffusion de la connaissance et de la phytothérapie.

The Grass Encyclopedia

Online Grass Encyclopedia with various uses and applications in the field of aromatherapy, essential oils, herbology, phytotherapy and phytochemistry.

MATERIAL SAFETY DATA SHEET

Date : 11/07/2001 Page : 1

1 - Identification of the product.

Name of the product: ajeput Essential Oil
Supplier: My supplier
Address: 3, street here - 5895 NOWHERE
Telephone:

2 - Composition / Informations about the components.

Essential Oil obtained by distillation with the water vapor of the Freshly pruned small branches of Melaleuca leucadendron L.

CAS N° 85480-37-1 (8008-98-8)

3 - Identification of dangers.

Flammable
Harmful if swallowed

4 - First help.

Contact with the skin: Take off the contaminated clothes. Wash the skin with a lot of water. Consult a doctor if irritation continues.
Contact with eyes: Supply eyes with a great quantity of water during at least ten minutes. Consult a doctor if irritation continues.
Ingestion: Rinse the mouth with water and consult immediately a doctor.

5 - Measures against fire.

Fight means against fire: Dry ice (CO2) or powder extinguishers
Extraction means to be applied: Foam or halogen extinguishers
Extinction means not recommended: Direct water jet. Water mist



C. Technical sheet printing



Le Grass Encyclopédie

Encyclopédie en ligne gratuite de tous les végétaux de France et de tous aspects liés de la production de produits qui en partent et de la contribution collective de la communauté et de la phyto-économie.

The Grass Encyclopedia

Online free encyclopedia of all plants in France and all aspects related to the production of products that come from them, and the collective contribution of the community and the phyto-economy.

TECHNICAL SHEET

Date : 11/07/2001 Page : 1

DESIGNATION : Cajeput Essential Oil

Reference XYZZ

Aspect Mobile liquid
Colour Green to yellow green-coloured
Flavour Characteristic
Description

ANALYTICAL CHARACTERISTICS

Density d 20/20°	0.909 - 0.921
Refractive index n _D /20°	1.464 - 1.472
Flash point	48 °C
Rotatory power alpha _D /20°	-4 +1.3

REGULATIVE / GENERAL INFORMATIONS

BOTANICAL NAME	Melaleuca leucadendron L.
CAS N°	85480-37-1 (8008-98-8)
EINECS/ELINGS N°	287-316-4
CE N°	276n
FEMA N°	2225
FDA N°	172.510

STORAGE CONDITION

To preserve at fresh temperature (max 18°C), under nitrogen, safe from the air and the light.



End of the User manual

Version 1.0c of August, 25, 2002

Design and production Jfr@Dev,

le 18 septembre 2002