

## Only for industrial use

## 1 - IDENTIFICATION

Type of product :	Organic FFL Essential Oil
Botanical name :	Piper nigrum L.
Part of plant :	Seed
Country of harvest / gathering :	MADAGASCAR
Country of manufacturing :	MADAGASCAR
Process :	Distillation
Natural content :	100,00 %

## Preservative agent / Antioxidant / Preservative :

Designation	N° CAS	%
None	None	None

## Carrier :

Designation	N° CAS	%
None	None	None

## 2 - PRODUCT CERTIFICATIONS

Kosher certification :	No
Halal certification :	No
Others :	ORGANIC : Coming from organic farming, certified by ECOCERT FR-BIO-01 Fair Trade certified according to the Fair for Life standard

## 3 - ORGANOLEPTIC AND ANALYTICAL DATA

Odour :	Fresh, woody and spicy
Appearance :	Limpid mobile liquid
Color :	Colourless to bluish green
Specific gravity (D20/20) :	0,8600 / 0,9000
Refractive Index (ND20) :	1,4800 / 1,4920
Optical Rotation at 20 °C :	-17,0000 / 11,0000 °
GC profile (area%) :	Conforms to standard
GC(area%) Pinene alpha :	5,00 / 19,00 %
GC(area%) Pinene Beta :	8,00 / 18,00 %
GC(area%) Carene delta-3 :	7,00 / 16,00 %
GC(area%) Limonene :	14,00 / 23,00 %
GC(area%) Beta caryophyllene :	8,00 / 28,00 %

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Golgemma

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#### 4 - REGULATION

##### INVENTORIES

N° CAS TSCA :	8006-82-4
N° CAS EINECS :	84929-41-9
N° EC :	284-524-7

Country inventories	Listed	Country inventories	Listed
TSCA Active	Yes	ISHL	Yes
EINECS	Yes	KECI	Yes
AHC	Yes	PICCS	Yes
DSL	Yes	NzLOC	Yes
nDSL	No	TCSI	Yes
IECSC	Yes		

##### FOOD

Inventories registration does not guarantee food grade status, use in food applications is under customer responsibility.

Food allergens (EC Regulation n° 1169/2011) : None

##### INVENTORIES :

N° FEMA : 2845

N° CoE : 347

N° FDA : 182.20

##### FRAGRANCE AND COSMETIC

INCI name (CosIng) :	100% PIPER NIGRUM FRUIT OIL
INCI name (PCPC) :	100% PIPER NIGRUM (PEPPER) FRUIT OIL
INCI IECIC :	Listed
INCI IECIC : PIPER NIGRUM (PEPPER) FRUIT OIL	

#### 5 - PACKAGING, HANDLING, STORAGE AND SHELF LIFE

Store in the original closed container ambient temperature between 15°C and 25°C protected from air and light.

Shelf life : 36 Months

All our packaging are approved for food contact according to current European regulation.

#### 6 - MISCELLANEOUS

*This data sheet is completed to the best of our knowledge at the indicated date about above product(s) and remains the property of the issuer. As such the given information remains confidential.*

*The information above is given for guidance only. Although the greatest care has been taken to ensure its accuracy, changing regulations and individual product characteristics may require specification modifications or make it necessary to disclaim any warranty, expressed or implied, or liabilities. It belongs to the user, under his responsibility, to ensure the conditions and possibilities of use of the product(s), in particular with regard to laws and regulations. It's important to remind that the certifications and the manufacturing practices and environment are related to the grade (food/non-food) of the products. In case of dispute relating to the information communicated pursuant to regulations, only regulations in force shall prevail.*

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