



24 CHATHAM PLACE, BRIGHTON, BN1 3TN (UK)  
TEL. (UK) 0845 310 8066 International Tel. +44 1273 746505  
EMAIL: [info@nhrorganiccoils.com](mailto:info@nhrorganiccoils.com) Web Site: [www.nhrorganiccoils.com](http://www.nhrorganiccoils.com)

## Product Specification

# Organic Anise Star Essential Oil (*Illicium verum*)

*Illicium verum* Hook. f.  
Origin - Vietnam

Agro-alimentary Organic product certified by FR-BIO-01

### PROCESSING METHOD

Essential Oil obtained by steam distillation from the seeds of *Illicium verum* Hook. f.

### PHYSICAL PROPERTIES

Odour : Anised, aromatic  
Appearance : Liquid crystallizing below 15°C. Warm in a bain-marie at temperature lower than 30°C and homogenize.  
Color : Pale yellow to dark yellow

### CHEMICAL PROPERTIES

Specific gravity at 20°C : 0,972 to 0,985  
Refractive index at 20°C : 1,550 to 1,560  
Optical rotation at 20°C : -4 ° to +1 °  
Flash point : +96 °C  
Acidity (% oleic acid) : N.A.  
Peroxide value : N.A.

### MAIN INGREDIENTS

Trans anethole (86,00 to 94,00%)  
D-L imonene (<= 6,00%)

### TECHNICAL SPECIFICATIONS

NCS, Natural Complex Substance (100% pure and natural)

N° CAS TSCA : 68952-43-2  
N° CASEINECS : 84650-59-9  
N° EINECS : 283-518-1  
N° FEMA : 2096  
N° FDA : 182.10  
N° CoE: : 238n  
FCC : -  
RIFM : X  
FMA : -  
AFNOR : NF ISO 11016  
INCI : ILLICIAM VERUM FRUIT OIL

### REGULATION INFORMATION

#### DANGEROUS SUBSTANCES DIRECTIVE (DSD) - DIRECTIVE N° 67/548/EEC

##### ■ HAZARDS IDENTIFICATION

**Xi**  Irritant

**N**  Dangerous for environment

**R40** Limited evidence of a carcinogenic effect  
**R43** May cause sensitisation by skin contact  
**R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
**R68** Possible risk of irreversible effects  
**S24** Avoid contact with skin  
**S37** Wear suitable gloves  
**S61** Avoid release to the environment. Refer to special instructions/safety data sheet

▪ **SUBSTANCE CLASSIFICATION CMR (CARCINOGENIC, MUTAGENIC, TOXIC TO REPRODUCTION)**

**Carcinogenicity** : Category 3 : Substances and preparations which cause concern for man owing to possible carcinogenic effects but in respect of which the available information is not adequate for making a satisfactory assessment. There is some evidence from appropriate animal studies, but this is insufficient to place the substance or preparation in category 2.

**Mutagenicity** : Category 3 : Substances and preparations which cause concern for man owing to possible mutagenic effects. There is evidence from appropriate mutagenicity studies, but this is insufficient to place the substance or preparation in category 2.

**Toxic effects on the reproductive system** : Not regulated

**CLP REGULATION - REGULATION (EC) N°1272/2008**

▪ **HAZARDS IDENTIFICATION**

**HAZARD PICTOGRAM(S)**



GHS07



GHS08



GHS09

**HAZARD STATEMENT(S)**

H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.  
H351 Suspected of causing cancer.  
H411 Toxic to aquatic life with long lasting effects.

**SIGNAL WORD**

**Warning**

**PRECAUTIONARY STATEMENT(S)**

P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P308 + P313 IF exposed or concerned: Get medical advice, attention.  
P501 Dispose of contents/the container in accordance with current legislation.

**ADDITIONAL HAZARD INFORMATION(S)**

Not regulated

▪ **SUBSTANCE CLASSIFICATION CMR (CARCINOGENIC, MUTAGENIC, TOXIC TO REPRODUCTION)**

**Carcinogenicity** : Category 2 (H351) : Substances suspected human carcinogens.  
The placing of a substance in Category 2 is done on the basis of evidence obtained from human and/or animal studies, but which is not sufficiently convincing to place the substance in Category 1A or 1B, based on strength of evidence together with additional considerations. Such evidence may be derived either from limited evidence of carcinogenicity in human studies or from limited evidence of carcinogenicity in animal studies.

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<b>Mutagenicity</b>	:	<b>Category 2 (H341) : Substances which cause concern for humans owing to the possibility that they may induce heritable mutations in the germ cells of humans.</b> <b>The classification in Category 2 is based on positive evidence obtained from experiments in mammals and/or in some cases from in vitro experiments, obtained from :</b> - somatic cell mutagenicity tests in vivo, in mammals; or - other in vivo somatic cell genotoxicity tests which are supported by positive results from in vitro mutagenicity assays.
<b>Toxic effects on the reproductive system</b>	:	<b>Not regulated</b>

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#### **HANDLING AND STORING**

Follow usual precaution of chemical ingredient handling. Store in a sealed container, in a dry, cool and aired area, protected from the light.

**Shelf life : 3 year(s) once agreed**

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#### **TRANSPORT INFORMATION**

**Hazard Class 9, Packing group III, UN n°3082**

Customs rate code : **3301 29 41 00**

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#### **SPECIAL INDICATIONS**

- The presence of the following allergen substances in a finished product must be indicated by way of labelling if their respective concentration exceeds 100 ppm in a rinsed product and 10 ppm in a product not rinsed. (7th amendment of Cosmetic Directive European 2003/15/EC)

Present allergens : **D-Limonene (<= 6,00%), Linalool (<= 2,50%)**

- IFRA restrictions : **Not regulated**

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