



CERTIFICATE OF ANALYSIS

PRODUCT NAME: STAR ANISE, ESSENTIAL OIL ORGANIC

BATCH NUMBER: **4351703**

PRODUCT INCI: ILICIIUM VERUM FRUIT

CAS NUMBER: 84650-59-9

EINECS NUMBER: 283-518-1

MANUFACTURING METHOD: STEAM DISTILLED

BEST BEFORE DATE: FEBRUARY 2022

ANALYTICAL DETAILS	RANGE	RESULTS
APPEARANCE	LIQUID	-
COLOUR	PALE YELLOW - YELLOW	-
ODOUR	CHARACTERISTIC	-
SPECIFIC GRAVITY @ 20°C	0.975 – 0.994	0.9813
REFRACTIVE INDEX @ 20°C	1.5525 – 1.5610	1.5552
OPTICAL ROTATION (°C)	-2.0 TO +2.0	0.31
ANETHOLE CONTENT (% GC)	>87.0	-

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations. The information is not to be disclosed to others, reproduced or transmitted in whole or in part without permission.



Allergen Declaration:

PRODUCT NAME: Star Anise, Essential Oil Organic			
COSMETIC ALLERGENS			
The Following is from the 7th amendment of the cosmetic directive of the European Union Annex III.			
Annex IIIa Reference:	CAS NUMBER:	TOTAL ALLERGEN INCLUSION (%):	
67	AMYL CINNAMAL	122-40-7	0.00
68	BENZYL ALCOHOL	100-51-6	0.00
69	CINNAMYL ALCOHOL	104-54-1	0.00
70	CITRAL	5392-40-5	0.00
71	EUGENOL	97-53-0	0.00
72	HYDROXY-CITRONELLAL	107-75-5	0.00
73	ISOEUGENOL	97-54-1	0.00
74	AMYL CIN-NAMYL ALCOHOL	101-85-9	0.00
75	BENZYL SALICYLATE	118-58-1	0.00
76	CINNAMAL	104-55-2	0.00
77	COUMARIN	91-64-5	0.00
78	GERANIOL	106-24-1	0.00
79	HYDROXY- METHYLPENTYL CYCLOHEXENECARBOXALDEHYDE	31906-04-4	0.00
80	ANISE ALCOHOL	105-13-5	0.00
81	BENZYL CINNAMATE	103-41-3	0.00
82	FARNESOL	4602-84-0	0.00
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.00
84	LINALOOL	78-70-6	1.50
85	BENZYL BENZOATE	120-51-4	0.00
86	CITRONELLOL	106-22-9	0.00
87	HEXYL CINNAM-ALDEHYDE	101-86-0	0.00
88	LIMONENE	5989-27-5	3.00
89	METHYL HEPTIN CARBONATE	111-12-6	0.00
90	ALPHA-ISOMETHYL IONONE	127-51-5	0.00
91	EVERNIA PRUNASTRI EXTRACT	90028-68-5	0.00
92	EVERNIA FURFURACEA EXTRACT	90028-67-4	0.00
FOOD ALLERGENS			
The following is from the commission directive 2007/68/EC of 27th November 2007 amending Annex IIIa to Directive 200/13/EC of the European Parliament & Council with regards to specific food ingredients.			
Annex IIIa Reference:	PRESENT IN PRODUCT:	CONTAMINATION PRESENCE:	FACTORY PRESENCE:
1	CEREALS (CONTAINING GLUTEN)	NO	YES
2	CRUSTACEANS	NO	NO
3	EGGS	NO	NO
4	FISH	NO	NO
5	PEANUTS	NO	YES
6	SOYA	NO	YES
7	MILK	NO	YES
8	NUTS	NO	YES
9	CELERY & CELERIAC	NO	NO
10	MUSTARD	NO	YES
11	SESAME	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO
13	LUPIN	NO	NO
14	MOLLUSC	NO	NO

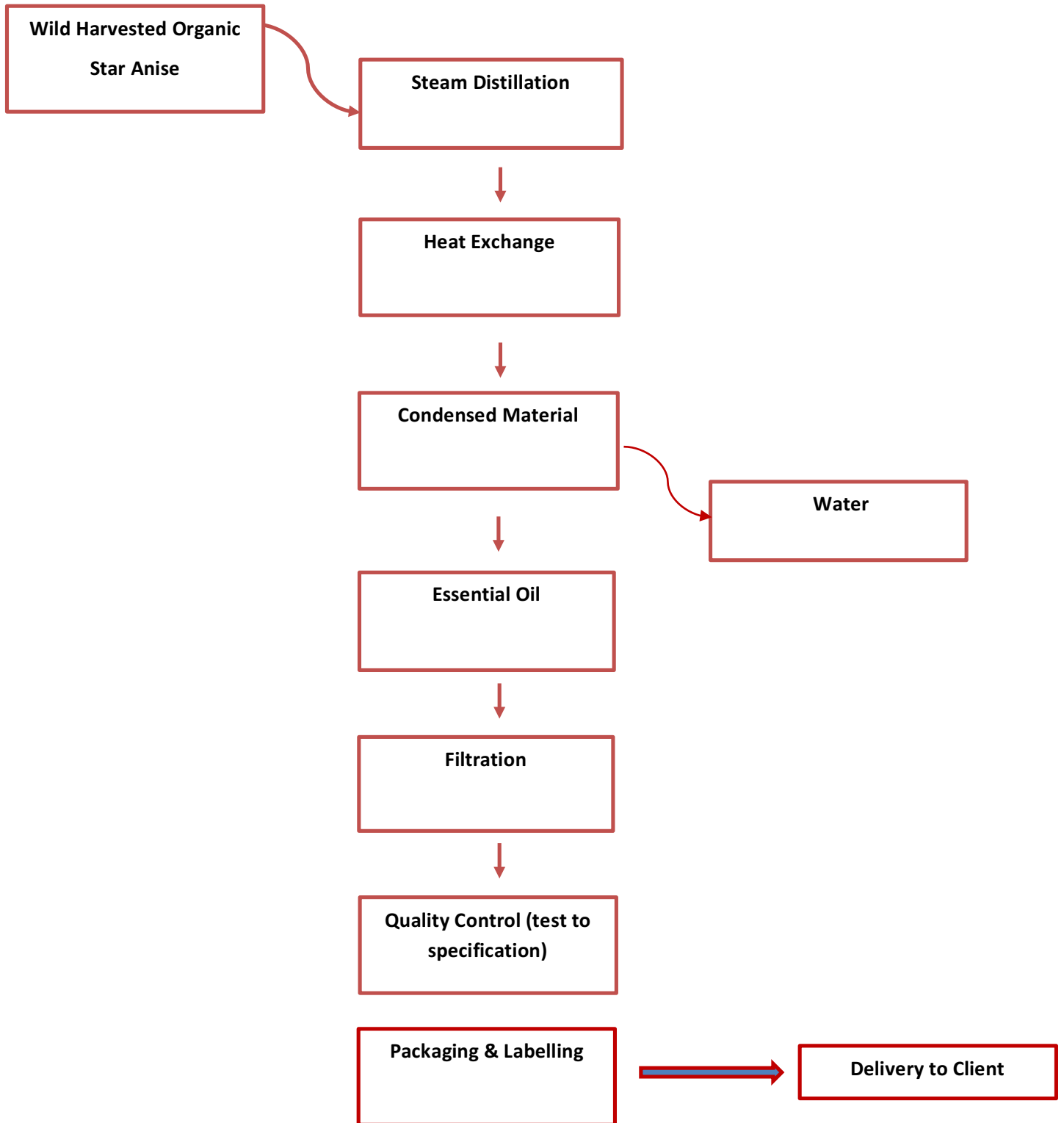


Composition Statement & Manufacturing Flow Chart:

MADAR can hereby confirm the following composition breakdown & manufacturing process flow;

Star Anise, Essential Oil Organic

INCI Name	% Inclusion	CAS Number
Illicium Verum Fruit Oil	100	68952-43-2





GMO Statement

PRODUCT NAME: STAR ANISE ORGANIC

MADAR Corporation Limited can confirm that the above listed product is GMO Free.

Vegetarian & Vegan Suitability Statement

MADAR Corporation Limited can confirm that the above listed product has not been tested in animals and does not contain dairy or any other animal product, by product or derivative and is therefore suitable for vegetarian and vegan use.

27/04/20



IFRA STATEMENT

PRODUCT NAME: STAR ANISE, ESSENTIAL OIL ORGANIC

PRODUCT INCI: ILICIIUM VERUM FRUIT

PRODUCT CODE: OCSTARANIS

CAS NUMBER: 84650-59-9

EINECS NUMBER: 283-518-1

MANUFACTURING METHOD: STEAM DISTILLED

MADAR CERTIFY THAT THE ABOVE NAMED MATERIAL CONFORMS TO THE IFRA 48 CODE OF PRACTICE AND CONTAINS THE FOLLOWING RESTRICTED COMPONENTS THAT ARE LISTED IN THE 48TH AMENDMENT OF THE IFRA CODE OF PRACTICE:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Limonene	5989-27-5	1.0 - 5.0	Specification Std
Linalool	78-70-6	1.0 - 5.0	Specification Std
Estragole (Methyl Chavicol)	140-67-0	1.0 - 5.0	Restriction Stds (QRA cat.)
p-Methoxybenzaldehyde (Anisaldehyde)	123-11-5	≤ 1.0	Restriction Stds (QRA cat.)

IFRA Classes	% Maximum Use Level
Class 1	0.2
Class 2	0.2
Class 3A	4.0
Class 3B	0.2
Class 3C	0.2
Class 3D	0.2
Class 4A	8.0
Class 4B	20.0



Class 4C	0.2
Class 4D	0.2
Class 5	0.2
Class 6	0.2
Class 7A	0.2
Class 7B	0.2
Class 8A	0.2
Class 8B	0.2
Class 9A	0.2
Class 9B	4.0
Class 9C	4.0
Class 10A	4.0
Class 10B	0.2
Class 11	4.0

Finished product types	IFRA class
Toys; Lip Products of all types (solid and liquid lipsticks, balms, clear or colored etc...)	Class 1
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body etc...)	Class 2
Hydroalcoholic products applied to recently shaved skin (EdT range)	Class 3.A
Hydroalcoholic products applied to recently shaved skin (fine fragrance range)	Class 3.B
Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc...) including eye cream. Men's Facial Creams and Balms	Class 3.C
Tampons.	Class 3.D
Hydroalcoholic Products applied to unshaved skin (EdT range). Ingredients of Perfume Kits. Scent Strips for Hydroalcoholic Products, "scratch and sniff", other paper products not mentioned elsewhere for which skin exposure is only incidental (e.g. spectacle cleaning tissues).	Class 4.A
Hydroalcoholic Products applied to unshaved skin (Fine Fragrance range).	Class 4.B
Hair Styling Aids and Hair Sprays of all types (pumps, aerosol sprays, etc...); Hair Deodorant. Body Creams, Oils, Lotions of all types (including baby creams, lotions, oils). Fragrance Compounds for Cosmetic Kits, Foot Care Products	Class 4.C
Fragrancing Cream	Class 4.D
Women's Facial Creams/Facial Make-up (excluding eye cream); Facial Masks; Hand Cream Wipes or refreshing tissues for Face, Neck, Hands, Body.	Class 5
Mouthwash, Toothpaste.	Class 6
Intimate Wipes; Baby Wipes.	Class 7 A
Insect Repellent (intended to be applied to the skin).	Class 7 B



Make-up Removers of all types (not including face cleansers). Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners etc...). Nail Care. All Powders & Talcs (including baby powders and talcs).	Class 8
Liquid Soap, Bar Soap (toilet soap); Depilatory; Conditioner (rinse-off), Shampoos of all types (including baby shampoos). Face Cleansers of all types (washes, gels, scrubs, etc...). Shaving Creams of all types (stick, gels, foams, etc...). Body Washes of all types (including baby washes). Shower Gels of all types; Bath Gels, Foams, Mousses, Salts, Oils and other products added to bathwater	Class 9.A
Feminine hygiene pads / liners.	Class 9.B
'Other' Aerosols (including air fresheners sprays but not including deodorant/antiperspirants, hair styling aids spray).	Class 9.C
Hand wash/Machine wash Laundry Detergents of all types (liquid, powder, tablet, etc...) including Laundry Bleaches. Other Household Cleaning Products (fabric cleaners, soft surface cleaners, carpet cleaners etc...) . Dry Cleaning Kits. Fabric Softeners of all types including fabric softener sheets. Hand Dishwashing Detergent. Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish etc...). Shampoos for pets	Class 10.A
Diapers. Toilet seat wipes.	Class 10.B
All non-skin contact, including: Air Fresheners and fragrancing of all types (excluding aerosol products): plug-ins, solid substrate, membrane delivery; Toilet blocks; Joss Sticks, Incense; Insecticides (mosquito coil, paper, electrical, etc...excluding aerosols); Plastic articles (excluding toys); Candles; Fuels; Paints; Floor wax; Liquid refills for air fresheners (cartridge system)	Class 11.A
All incidental skin contact, including: Machine Dish wash Detergents and Deodorizers. Machine only Laundry Detergents (e.g. liquid tabs). Deodorizers/Maskers (e.g. fabric drying machine deodorizers, carpet powder). Pot pourri, fragrancing sachets, liquid refills for air fresheners (non-cartridge systems), etc... Shoe polishes; Cat Litter; Animal Sprays (excluding aerosols); Treated Textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics, tights with moisturizers); Odored Distilled Water (that can be added to steam irons).	Class 11.B



Material Safety Data Sheet

EU Regulation: 1907/2006

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1

PRODUCT IDENTIFICATION

PRODUCT NAME	STAR ANISE, ESSENTIAL ORGANIC				
BIOLOGICAL DEFINITION	"ANISE OIL". ILICIMUM VERUM FRUIT OIL IS AN ESSENTIAL OIL DISTILLED FROM THE FRUITS OF THE STAR ANISE, ILICIMUM VERUM, ILICACEAE.				
INCI NAME	ILICIMUM VERUM FRUIT				
SYNONYMS & TRADE NAMES	STAR ANISE OIL, CHINA STAR.				
INTERNAL PRODUCT CODE	OCSTARANIS				
CAS-No	84650-59-9	EC No.	283-518-1	EINECS No.	283-518-1

1.2

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET



COMPANY ADDRESS	MADAR Corporation Limited 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA
EMAIL	sales@madarcorporation.co.uk

1.3

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

EMERGENCY CONTACTS	01425 655555 during office hours
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SECTION 2: HAZARDS IDENTIFICATION	
2.1	
CLASSIFICATION OF THE SUBSTANCE OR MIXTURE	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
CLASSIFICATION (67/548/EEC)	THE FULL TEXT FOR ALL R-PHRASES AND HAZARD STATEMENTS ARE DISPLAYED IN SECTION 16.
CLASSIFICATION (EU1272/2008)	PHYSICAL AND CHEMICAL HAZARDS: NOT CLASSIFIED. HUMAN HEALTH: SKIN SENS. 1 - H317, MUTA. 2 - H341, CARC. 2 - H351 ENVIRONMENT: AQUATIC CHRONIC 3 - H412
2.2	
LABEL ELEMENTS	LABEL IN ACCORDANCE WITH REGULATION (EC) No 1272/2008.
GHS LABEL	<div>   </div> <div> GHS07 GHS08 </div>
SIGNAL WORD	WARNING.
CONTAINS	TRANS-ANETHOLE, ESTRAGOLE, ALPHA PINENE, (R)-P-MENTHA-1,8-DIENE, A TERPINOLENE
HAZARDS STATEMENT	H303 MAYBE HARMFUL IF SWALLOWED. H316 MAY CAUSE MILD SKIN IRRITATION. H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H341 SUSPECTED OF CAUSING GENETIC DEFECTS. H351 SUSPECTED OF CAUSING CANCER. H412 HARMFUL TO AQUATIC LIFE CAUSING LONG TERM EFFECTS.
PRECAUTIONARY STATEMENTS	P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. P273 AVOID RELEASE TO THE ENVIRONMENT. P280 WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION. P281 USE OF PROTECTICE EQUIPMENT REQUIRED. P308+P313 IF SKIN EXPOSED & IRRITATED GET MEDICAL ADVICE.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P272 CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. P308+P313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ ATTENTION. P321 SPECIFIC TREATMENT (SEE MEDICAL ADVICE ON THIS LABEL). P333+P313 IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ ATTENTION. P362+P364 TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. P405 STORE LOCKED UP.
SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.	
2.3	
OTHER HAZARDS	
ADVERSE PHYSIO-CHEMICAL PROPERTIES	NO DATA
ADVERSE EFFECTS ON HUMAN HEALTH	NO DATA



PBT OR VPVB ACCORDING TO ANNEX XIII	NO DATA.
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SECTION 3: COMPOSITION OF INGREDIENTS

3.2 MIXTURES	> 86.0 % TRANS-ANETHOLE CLASSIFICATION (EC 1272/2008)	CAS-No.: 4180-23-8 SKIN SENS. 1 - H317	EC No.: 224-052-0
	1.0 – 5.0% ESTRAGOLE CLASSIFICATION (EC 1272/2008) CARC. 2 - H351	CAS-No.: 140-67-0 ACUTE TOX. 4 - H302, SKIN SENS. 1 - H317, MUTA. 2 - H341,	EC No.: 205-427-8
	1.0 – 5.0% LINALOOL CLASSIFICATION (EC 1272/2008)	CAS-No.: 78-70-6 SKIN IRRIT. 2 - H315, EYE IRRIT. 2 - H319	EC No.: 201-134-4
	< 1.0% ALPHA PINENE CLASSIFICATION (EC 1272/2008) H317	CAS-No.: 80-56-8 FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317 ASP. TOX. 1 - H304	EC No.: 201-291-9
	< 1.0% LIMONENE CLASSIFICATION (EC 1272/2008) H317, CHRONIC 1 - H410	CAS-No.: 5989-27-5 M FACTOR (ACUTE) = 1 M FACTOR (CHRONIC) = 1 FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400, AQUATIC	EC No.: 227-813-5
	< 1.0% P-METHOXYBENZALDEHYDE CLASSIFICATION (EC 1272/2008)	CAS-No.: 123-11-5 ACUTE TOX. 4 - H302	EC No.: 204-602-6
	< 1.0% A TERPINOLENE CLASSIFICATION (EC 1272/2008) H400	CAS-No.: 586-62-9 M FACTOR (ACUTE) = 1, M FACTOR (CHRONIC) = 1 SKIN SENS. 1 - H317, ASP. TOX. 1 - H304, AQUATIC ACUTE 1 - H400 AQUATIC CHRONIC 1 - H410	EC No.: 209-578-0

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	
GENERAL INFORMATION	ALWAYS REMOVE CONTAMINATED CLOTHING IMMEDIATELY.
INHALATION	GET MEDICAL ATTENTION IMMEDIATELY. REMOVE FROM EXPOSURE SITE TO FRESH AIR, KEEP AT REST, AND OBTAIN MEDICAL ATTENTION.
INGESTION	GET MEDICAL ATTENTION IMMEDIATELY. RINSE MOUTH WITH WATER AND OBTAIN MEDICAL ATTENTION.



SKIN CONTACT	REMOVE CONTAMINATED CLOTHES. WASH THOROUGHLY WITH SOAP AND WATER. CONTACT PHYSICIAN IF IRRITATION PERSISTS.								
EYE CONTACT	FLUSH IMMEDIATELY WITH WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN IF SYMPTOMS PERSIST.								
4.2 MOST IMPORTANT SYMPTOMS & EFFECTS (ACUTE & DELAYED)	<table> <tr> <td>INHALATION</td><td>MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING.</td></tr> <tr> <td>INGESTION</td><td>IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM.</td></tr> <tr> <td>SKIN CONTACT</td><td>TOXIC IN CONTACT WITH SKIN.</td></tr> <tr> <td>EYE CONTACT</td><td>MAY CAUSE EYE IRRITATION.</td></tr> </table>	INHALATION	MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING.	INGESTION	IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM.	SKIN CONTACT	TOXIC IN CONTACT WITH SKIN.	EYE CONTACT	MAY CAUSE EYE IRRITATION.
INHALATION	MAY CAUSE COUGHING AND DIFFICULTIES IN BREATHING.								
INGESTION	IRRITATING TO THE RESPIRATORY TRACT AND MAY CAUSE DAMAGE TO THE CENTRAL NERVOUS SYSTEM.								
SKIN CONTACT	TOXIC IN CONTACT WITH SKIN.								
EYE CONTACT	MAY CAUSE EYE IRRITATION.								
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION OR SPECIAL TREATMENT REQUIRED	NONE EXPECTED, SEE SECTION 4.1 FOR FURTHER INFORMATION.								

SECTION 5: FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MATERIAL	FOAM, CO2, DRY CHEMICAL POWDER.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	BURNING PRODUCES IRRITATING, TOXIC AND OBNOXIOUS FUMES
5.3 ADVICE FOR FIRE-FIGHTERS	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS	ENSURE ADEQUATE VENTILATION OF THE WORKING AREA, EVACUATE PERSONNEL TO SAFE AREA, WEAR SUITABLE PROTECTIVE EQUIPMENT. NO SMOKING, SPARKS, FLAMES OR OTHER SOURCES OF IGNITION NEAR SPILLAGE. AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
6.2 ENVIRONMENTAL PRECAUTIONS	DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY GUIDELINES.
6.3 METHODS & MATERIAL FOR CONTAINMENT AND CLEANING UP	REMOVE IGNITION SOURCES. PROVIDE ADEQUATE VENTILATION. AVOID EXCESSIVE INHALATION OF VAPOURS. CONTAIN SPILLAGE IMMEDIATELY BY USE OF SAND OR INERT POWDER. DISPOSE OF ACCORDING TO LOCAL REGULATIONS.
6.4 REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 8. REFER & CONSIDER SECTION 13.

SECTION 7: HANDLING & STORAGE

7.1 PRECAUTIONS FOR SAFE-HANDLING	HANDLE IN ACCORDANCE WITH GOOD HYGIENE AND SAFETY PRACTICE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES AND HOT SURFACES. - NO SMOKING. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. USE IN ACCORDANCE WITH GOOD MANUFACTURING AND INDUSTRIAL HYGIENE PRACTICES. USE IN AREAS WITH ADEQUATE VENTILATION DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	KEEP THE PRODUCT CONTAINER TIGHTLY CLOSED, IN A DRY, VENTILATED AREA. KEEP AWAY FROM POTENTIAL SOURCES OF IGNITION AND PROTECTED FROM LIGHT. MAINTAIN LIMITED CONTACT WITH OXYGEN.
7.3 SPECIFIC END USE(S)	NO DATA.

SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 CONTROL PARAMETERS	LINALOOL (CAS: 78-70-6)		
	DNEL WORKERS:		
	SHORT TERM SYSTEMIC EFFECTS:		LONG TERM SYSTEMIC EFFECTS:
	DERMAL	5 MG/KG	2.5 MG/KG
	INHALATION	16.5 MG/M ³	2.8 MG/M ³
	DNEL GENERAL POPULATION:		
	SHORT TERM SYSTEMIC EFFECTS:		LONG TERM SYSTEMIC EFFECTS:
	ORAL	1.5 MG/KG	0.2 MG/KG
	DERMAL	2.5 MG/KG	1.25 MG/KG
	INHALATION	4.1 MG/M ³	0.7 MG/M ³
	PNEC:		
		SHORT TERM	
	STP	10 MG/L	
	SOIL	0.327 MG/KG	
	INTERMITTENT RELEASE	2 MG/L	
	FRESH WATER	0.2 MG/L	
	MARINE WATER	0.02 MG/L	
	SEDIMENT (FRESHWATER)	2.22 MG/KG	
	SEDIMENT (MARINEWATER)	0.222 MG/KG	
	ALPHA PINENE (CAS: 80-56-8)		
	DNEL WORKERS:		
	SHORT TERM SYSTEMIC EFFECTS:		LONG TERM SYSTEMIC EFFECTS:
	INHALATION		5.98 MG/M ³
	DNEL GENERAL POPULATION:		
	SHORT TERM SYSTEMIC EFFECTS:		LONG TERM SYSTEMIC EFFECTS:
	ORAL		0.31 MG/KG
	INHALATION		1.06 MG/M ³
	PNEC:		
	STP	3.260 MG/L	
	SOIL	0.539 MG/KG	
	LIMONENE (CAS: 5989-27-5)		
	DNEL WORKERS:		
	SHORT TERM SYSTEMIC EFFECTS:		LONG TERM SYSTEMIC EFFECTS:
	INHALATION		33.3 MG/M ³
	DNEL GENERAL POPULATION:		
	SHORT TERM SYSTEMIC EFFECTS:		LONG TERM SYSTEMIC EFFECTS:
	ORAL		4.76 MG/KG
	PNEC:		
	STP	1.8 MG/L	
	SOIL	0.262 MG/KG	
	FRESH WATER	0.0054 MG/L	



	MARINE WATER	0.00054 MG/L
	SEDIMENT (FRESH WATER)	1.32 MG/KG
	SEDIMENT (MARINE WATER)	0.13 MG/KG

8.2

EXPOSURE CONTROLS



EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.
RESPIRATORY EQUIPMENT	NO DATA
HYGIENE MEASURES	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.
ENGINEERING MEASURES	NONE.
SKIN PROTECTION	WEAR PROTECTIVE CLOTHING TO REDUCE THE RISK OF SKIN AND EYE CONTACT.
PERSONAL PROTECTION	AVOID INHALATION OF THE PRODUCT. AVOID CONTACT WITH SKIN AND EYES.
OTHER PROTECTION	WEAR SUITABLE PROTECTION TO AVOID CONTACT WITH SKIN AND EYES. DO NOT INHALE VAPOURS.
PROCESS CONDITIONS	ENSURE AREA IS WELL VENTILATED. AVOID VAPOUR INHALATION. SAFETY SHOWER & EYE BATH.
ENVIROMENTAL EXPOSURE CONTROLS	AVOID DISCHARGING INTO DRAINAGE WATER.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1 PHYSICAL & CHEMICAL PROPERTIES	
APPEARANCE	CLEAR
COLOUR	COLOURLESS - PALE YELLOW
ODOUR	INTENSELY SWEET, ANISE
RELATIVE DENSITY	APPROX 0.989 @ 20°C
FLASH POINT (°C)	96°C
REFRACTIVE INDEX @ 20 °C	APPROX 1.54 @ 20°C
SOLUBILITY IN WATER @ 20 °C	INSOLUBLE IN WATER

9.2 OTHER INFORMATION	NO DATA
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SECTION 10: STABILITY & REACTIVITY

10.1 REACTIVITY	NO HAZARDOUS REACTIONS IF STORED AND HANDLED AS PRESCRIBED / INDICATED.
10.2 CHEMICAL STABILITY	STABLE UNDER SUGGESTED STORAGE CONDITIONS (<15°C).



10.3 POSSIBILITY OF HAZARDOUS REACTIONS	No.
10.4 CONDITIONS TO AVOID	STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.
10.5 INCOMPATIBLE MATERIALS	STRONG OXIDISING SUBSTANCES.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL EFFECTS	
ACUTE TOXICITY	ACUTE TOXICITY - ORAL ATE ORAL 15,151.52 mg/kg
SKIN IRRITATION	NO DATA
EYE DAMAGE OR IRRITATION	NO DATA
RESPIRATORY OR SKIN SENSITIVITY	NO DATA
GERM CELL MUTAGENICITY	NO DATA
CARCINOGENICITY	NO DATA
REPRODUCTIVE TOXICITY	NOT APPLICABLE.
STOT – SINGLE EXPOSURE	NOT APPLICABLE.
STOT – REPEATED EXPOSURE	NOT APPLICABLE.
ASPIRATION HAZARD	NO DATA
OTHER INFORMATION	NO DATA.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY	THE PRODUCT CONTAINS SUBSTANCES WHICH ARE TOXIC TO AQUATIC ORGANISMS AND WHICH MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
12.2 PERSISTENCE & DEGRADABILITY	NO DATA
12.3 BIO- ACCUMULATIVE POTENTIAL	NO DATA
12.4 MOBILITY IN SOIL	NO DATA.
12.5 RESULTS OF PBT & VPVB ASSESSMENT	NO DATA.
12.6 OTHER ADVERSE EFFECTS	DO NOT ALLOW PRODUCT TO ENTER STREAMS, SEWERS OR OTHER WATERWAYS.

SECTION 13: DISPOSAL INFORMATION

13.1 WASTE TREATMENT METHODS	ALWAYS RECOVER SPILLED PRODUCT. DISCARD WASTE MATERIAL WITH AUTHORIZED WASTE
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	MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.
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SECTION 14: TRANSPORT INFORMATION	
14.1 TRANSPORT INFORMATION	
	UN NUMBER
	NONE.
14.2 UN SHIPPING NAME	NONE.
14.3 TRANSPORT HAZARD CLASS(ES)	NONE.
14.4 PACKING GROUP	NONE.
14.5 ENVIROMENTAL HAZARDS	NONE.
14.6 SPECIAL PRECAUTIONS FOR USER	NONE.
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC CODE.	NONE.
SECTION 15: REGULATORY INFORMATION	
15.1 PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS & LEGISLATION	
EU DIRECTIVES	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 18 TH DECEMBER 2006. CONCERNING THE REGISTRATION, EVALUATION, AUTHORIZATION & RESTRICTION OF CHEMICALS (REACH), ESTABLISHING A EUROPEAN CHEMICALS AGENCY, AMENDING DIRECTIVE 1999/45/EC AND REPEALING COUNCIL REGULATION (EEC) No793/93 & COMMISSION REGULATION (EC) No1488/94 AS WELL AS COUNCIL DIRECTIVE 76/769/EEC & COMMISSION DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS).



STATUTORY INSTRUMENTS	THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009 No 716).
APPROVED CODE OF PRACTICE	CLASSIFICATION & LABELLING OF SUBSTANCES & PREPARATIONS DANGEROUS FOR SUPPLY. SAFETY DATA SHEETS FOR SUBSTANCES & PREPARATIONS.
GUIDANCE NOTES	WORKPLACE EXPOSURE LIMITS EH40. CHIP FOR EVERYONE HSG 108.
15.2 CHEMICAL SAFETY ASSESSMENT	NONE.

SECTION 16: OTHER INFORMATION	
HAZARD AND/ OR PRECAUTIONARY STATEMENTS IN FULL	H226 FLAMMABLE LIQUID AND VAPOUR. H302 HARMFUL IF SWALLOWED. H304 MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. H315 CAUSES SKIN IRRITATION. H317 MAY CAUSE AN ALLERGIC SKIN REACTION. H319 CAUSES SERIOUS EYE IRRITATION. H341 SUSPECTED OF CAUSING GENETIC DEFECTS.
TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.	
ABBREVIATIONS & ACRONYMS:	
MSDS	MATERIAL SAFETY DATA SHEET.
INCI	INTERNATIONAL NOMENCLATURE OF COSMETIC INGREDIENTS.
CAS	CHEMICAL ABSTRACT SERVICE.
IMDG	INTERNATIONAL MARITIME CODE FOR DANGEROUS GOODS.
ADR	ACCORD EUROPEAN SUR LE TRANSPORT DES MARCHANDISES DANGEREUSES PAR ROUTE (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD).
RID	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.
ICAO	INTERNATIONAL CIVIL AVIATION ORGANIZATION.
ADN	INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS.
GHS	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION & LABELLING OF CHEMICALS.
TREM CARD	TRANSPORT EMERGENCY CARD.
STOT	SPECIFIC TARGET ORGAN TOXICITY.

DOCUMENTATION REVISION

DATE	CHANGE DESCRIPTION
10 TH APRIL 2018	DATA LAUNCH



SPECIFICATION SHEET

PRODUCT NAME: STAR ANISE, ESSENTIAL OIL ORGANIC

PRODUCT INCI: ILICIIUM VERUM FRUIT OIL

PRODUCT CODE: OCSTARANIS

CAS NUMBER: 84650-59-9

EINECS NUMBER: 283-518-1

MANUFACTURING METHOD: STEAM DISTILLED

ANALYTICAL DETAILS		RANGE
APPEARANCE	LIQUID	
COLOUR	PALE YELLOW - YELLOW	
ODOUR	CHARACTERISTIC	
SPECIFIC GRAVITY @ 20°C	0.975 – 0.994	
REFRACTIVE INDEX @ 20°C	1.5525 – 1.5610	
OPTICAL ROTATION (°C)	-2.0 TO +2.0	
ANETHOLE CONTENT (% GC)	>87.0	

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

DOCUMENTATION REVIEW DATE:

24TH MAY 2018

The attached information is considered to be correct at the time the client received this information. Please be aware that detail can change and we encourage clients to update their records with MADAR regularly. The information is not and should not be considered a guarantee or warranty, or a part of our contractual or other legal obligations.