

# **CERTIFICATE OF ANALYSIS**

#### PRODUCT NAME: SPRUCE BLACK, ESSENTIAL OIL

BATCH NUMBER: 4343003

PRODUCT INCI: PICEA MARIANA LEAF

PRODUCT CODE: OESPRUBLAC

CAS NUMBER: 91722-19-9

EINECS NUMBER: 294-420-3

MANUFACTURING METHOD: STEAM DISTILLATION

BEST BEFORE END: NOVEMBER 2021

ANALYTICAL DETAILS	Range	RESULTS
Appearance	Liquid	-
COLOUR	COLOURLESS - YELLOW	-
Odour	CHARACTERISTIC	-
SPECIFIC GRAVITY @ 20°C	0.875 – 0.898	0.890
Refractive Index @ 20°C	1.460 - 1.480	1.469
OPTICAL ROTATION (°C)	-60.0 то -38.0	-44.1

### STORAGE CONDITIONS STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT



## Allergen Declaration:

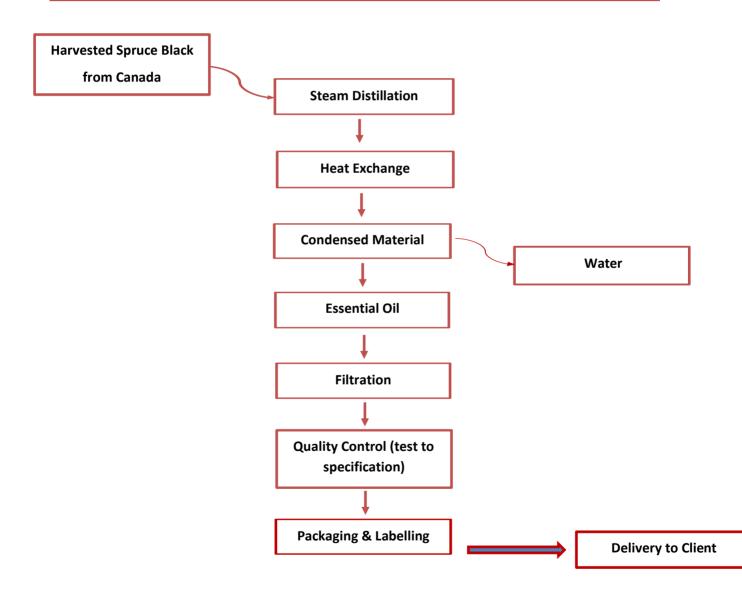
RODUCT NAME:	Spruce Black, Essential			
INCI:	Picea Mariana Leaf			
The Fo	COSMETIC ALLERGENS			
			TOTAL AUGREEN INCLUSION (A/)-	
nex Illa Reference: 67	AMYL CINNAMAL	CAS NUMBER: 122-40-7	TOTAL ALLERGEN INCLUSION (%): 0.00	
68		100-51-6	0.00	
69	BENZYL ALCOHOL CINNAMYL ALCOHOL	104-54-1	0.00	
70	CITRAL	5392-40-5	0.00	
70	EUGENOL	97-53-0	0.00	
72	HYDROXY-CITRONELLAL	107-75-5	0.00	
73 74	ISOEUGENOL AMYLCIN-NAMYL ALCOHOL	97-54-1 101-85-9	0.00	
74	BENZYL SALICYLATE	118-58-1	0.00	
76	CINNAMAL	104-55-2	0.00	
76	COUMARIN	91-64-5	0.00	
78	GERANIOL	91-64-5	0.00	
78	HYDROXY- METHYLPENTYLCYCLOHEXENECARBOXALDEHYDE	31906-04-4	0.00	
80	ANISE ALCOHOL	105-13-5	0.00	
80	BENZYL CINNAMATE	103-41-3	0.00	
81	FARNESOL	4602-84-0	0.00	
82	BUTYLPHENYL METHYLPROPIONAL	4602-84-0 80-54-6	0.00	
83	LINALOOL	78-70-6	0.00	
85	BENZYL BENZOATE CITRONELLOL	120-51-4 106-22-9	0.00	
86 87	HEXYL CINNAM-ALDEHYDE	108-22-9	0.00	
88	LIMONENE	5989-27-5	20.0 - 30.0	
			0.00	
89	METHYL HEPTIN CARBONATE	111-12-6		
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			
	on directive 2007/68/EC of 27th November 2007 amending Annex Illa to Directive 200/13/EC of the European Parlic			
ex Illa Reference:		PRESENT IN PRODUCT:	CONTAMINATION PRESENCE:	FACTORY PRESENCE:
1	CEREALS ( CONTAINING GLUTEN )	NO	NO	YES
2	CRUSTACEANS	NO	NO	NO
3	EGGS	NO	NO	NO
4	FISH	NO	NO	NO
5	PEANUTS	NO	NO	YES
6	SOYA	NO	NO	YES
7	MILK	NO	NO	YES
8	NUTS	NO	NO	YES
9	CELERY & CELERIAC	NO	NO	NO
10	MUSTARD	NO	NO	YES
11	SESAME	NO	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO	NO
			NO	NO
13 14	LUPIN MOLLUSC	NO	NO	NO



## Composition Statement & Manufacturing Flow Chart:

#### Spruce Black, Essential Oil

INCI Name	% Inclusion	CAS Number
Picea Mariana Leaf	100	91722-19-9





## **GMO Statement**

PRODUCT NAME: SPRUCE BLACK

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

06/03/2019



# **IFRA STATEMENT**

PRODUCT NAME: SPRUCE BLACK, ESSENTIAL OIL

PRODUCT INCI: PICEA MARIANA LEAF PRODUCT CODE: OESPRUBLAC CAS NUMBER: 91722-19-9 EINECS NUMBER: 294-420-3 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  $48^{\text{TH}}$  Amendment OF THE IFRA CODE OF PRACTICE:

Restricted Component	Cas No:	% Level in Product	IFRA Standard
Limonene	5989-27-5	20.0 – 30.0	Specification Stds.

IFRA Classes	% Maximum Use Level
Class 1	Not Restricted.
Class 2	Not Restricted.
Class 3A, 3B, 3C, 3D	Not Restricted.
Class 4A, 4B, 4C, 4D	Not Restricted.
Class 5	Not Restricted.
Class 6	Not Restricted.
Class 7A, 7B	Not Restricted.
Class 8A, 8B	Not Restricted.
Class 9A, 9B, 9C	Not Restricted.
Class 10A, 10B	Not Restricted.
Class 11	Not Restricted.

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, etcexcluding 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. liquitabs). 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

THE SUBSTANCE	/MIXTURE /	AND OF THE COMPANY/	UNDERTAKING	
SPRUCE BLACK, ESSEN	ITIAL OIL			
Picea Mariana Leaf	OIL IS AN ESSE	NTIAL OIL OBTAINED FROM THE LEA	VES OF THE SPRUCE,	Picea mariana, Pinaceae.
Picea Mariana Leaf	Picea Mariana Leaf Oil.			
OESPRUBLAC				
91722-19-9	EC No.	294-420-3	EINECS NO.	294-420-3
·	·			·
A SHEET				
19-20 SANDLEHEATH	INDUSTRIAL ES	STATE, FORDINGBRIDGE, HAMPSHIF	re, SP6 1PA	
SALES@MADARCC	ORPORATION	I.CO.UK		
A SHEET				
01425 655555				
	SPRUCE BLACK, ESSEN PICEA MARIANA LEAF PICEA MARIANA LEAF OESPRUBLAC 91722-19-9 A SHEET MADAR CORPORATION 19-20 SANDLEHEATH SALES@MADARCC A SHEET	SPRUCE BLACK, ESSENTIAL OIL PICEA MARIANA LEAF OIL IS AN ESSE PICEA MARIANA LEAF OIL OESPRUBLAC 91722-19-9 EC NO. A SHEET MADAR CORPORATION LIMITED 19-20 SANDLEHEATH INDUSTRIAL ES SALES@MADARCORPORATION A SHEET	SPRUCE BLACK, ESSENTIAL OIL PICEA MARIANA LEAF OIL IS AN ESSENTIAL OIL OBTAINED FROM THE LEA PICEA MARIANA LEAF OIL. OESPRUBLAC 91722-19-9 EC NO. 294-420-3 A SHEET MADAR CORPORATION LIMITED 19-20 SANDLEHEATH INDUSTRIAL ESTATE, FORDINGBRIDGE, HAMPSHIR SALES@MADARCORPORATION.CO.UK A SHEET	PICEA MARIANA LEAF OIL IS AN ESSENTIAL OIL OBTAINED FROM THE LEAVES OF THE SPRUCE, PICEA MARIANA LEAF OIL. OESPRUBLAC 91722-19-9 EC NO. 294-420-3 EINECS NO. A SHEET MADAR CORPORATION LIMITED 19-20 SANDLEHEATH INDUSTRIAL ESTATE, FORDINGBRIDGE, HAMPSHIRE, SP6 1PA SALES@MADARCORPORATION.CO.UK A SHEET



The full text for all hazard statements is displayed in section 16. No additional data available.
FLAM. LIQ. 3 (H226) ASP. TOX. 1 (H304) EYE IRRIT. 2 (H319) SKIN SENS. 1 (H317) AQU. CHRON. 1 (H410)
LABEL IN ACCORDANCE WITH REGULATION (EC) NO 1272/2008.
GHS02 GHS07 GHS08 GHS09 GHS09
DANGER.
Delta-3-Carene, alpha-Pinene, beta-Pinene, Limonene, Camphene.
H226       Flammable liquid and vapour.         H304       May be fatal if swallowed and enters airways.         H319       Causes serious eye irritation.         H317       May cause an allergic skin reaction.         H410       Very toxic to aquatic life with long lasting effects.
P210         KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES NO SMOKING.           P241         USE EXPLOSION-PROOF ELECTRICAL/VENTILATING/LIGHTING/EQUIPMENT.           P301+P310         IF SWALLOWED: Immediately call a POISON CENTER/ doctor.           P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.           P405         Store locked up.           P501         Dispose of contents/container in accordance with local/regional/national/international regulations.
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SECTION 16 (OTHER INFORMATION): RISK & SAFETY PHRASES IN FULL.
ΝΟ ΔΑΤΑ
ΝΟ ΔΑΤΑ



	<b>20-30% Limonene</b> CAS-NO.: 5989-27-5 EC NO.: 227-813-5 Classification (EC 1272/2008) Flam. Liq. 3 – H226, Skin Irrit 2 – H315 ASP Tox. 1 – H304, Skin Sens. 1 – H317 Aquatic Acute 1 – H400, Aquatic Chronic 1 – H410
	<b>20-25% Camphene</b> CAS-No 79-92-5, EC 201-234-8 Classification (EC 1272/2008); Flam. Sol. 1 – H228, Eye Irrit 2 – H319, Aquatic Acute 1 – H400
3.2 Mixtures	<b>10-20% Alpha-Pinene</b> CAS-NO.: 80-56-8 EC NO.: 201-291-9 Classification (EC 1272/2008) Flam. Liq. 3 - H226, Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Asp. Tox. 1 - H304
	<b>2-4% BETA-PINENE</b> CAS. NO: 127-91-3 EC NO: 204-872-5 Classification (EC 1272/2008); Danger, Flam. Liq. 3 – H226, Skin Sens. 1 – H317 , ASP TOX. 1 – H304, Aquatic Chronic 1 – H410
	<b>1-4% delta-3-Carene</b> CAS-No.: 13466-78-9 EC No.: 236-719-3 Classification (EC 1272/2008) Danger Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Sens. 1, H317

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)	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	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:
ADVICE 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	Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority
ENVIRONMENTAL PRECAUTIONS	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	REFER & CONSIDER SECTION 8.
REFERENCES TO OTHER SECTIONS	REFER & CONSIDER SECTION 13.



#### **SECTION 7: HANDLING & STORAGE**

Odoui Relative Densit		
-		
Coloui	YELLOW - RED BROWN	
Appearance		
9.1 Physical & Chemical Properties		
SECTION 9: PHYSICAL & CHEMICAL PROPERTIES		
ENVIROMENTAL EXPOSURE CONTROLS	AVOID DISCHARGING INTO DRAINAGE WATER.	
	GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.	
	REFER TO SECTIONS 2 AND 7.	
	VENTILATION. B) PERSONNEL CAN USE AN APPROVED, APPROPRIATELY FITTED RESPIRATOR WITH ORGANIC VAPOUR CARTRIDGE OR CANISTERS AND PARTICULATE FILTERS. C) USE CLOSED SYSTEMS FOR TRANSFERRING AND PROCESSING THIS MATERIAL. ALSO	
RESPIRATORY EQUIPMENT		
	PROLONGED USE, OR HIGH TEMPERATURE OR OTHER CONDITIONS WHICH INCREASE EXPOSURE, THE FOLLOWING ENGINEERING	
	VAPOUR, THIS MATERIAL SHOULD NOT REQUIRE SPECIAL ENGINEERING CONTROLS. HOWEVER, IN CONDITIONS OF HIGH OR	
	UNDER NORMAL CONDITIONS OF USE AND WHERE ADEQUATE VENTILATION IS AVAILABLE TO PREVENT BUILD UP OF EXCESSIVE	
HAND PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.	
EYE PROTECTION	WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.	
8.2 EXPOSURE CONTROLS		
8.1 Control Parameters	NO DATA.	
SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION		
7.3 Specific end use(s)	NO DATA.	
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.	
7.1 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.	



FLASH POINT (°C)	42°C
. ,	
REFRACTIVE INDEX @ 20 °C	Approx. 1.470 @ 20°C
Solubility in water @ 20 °C	INSOLUBLE IN WATER.
9.2	
OTHER INFORMATION	NO DATA.
SECTION 10: STABILITY & REACTIVITY	
10.1	Presents no significant reactivity hazards, by itself or in contact with water. Stable under normal
REACTIVITY	TEMPERATURE AND STORAGE CONDITIONS AND RECOMMENDED USE.
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 $15^{\circ}$ C.
10.5 Incompatible materials	P.V.C
10.6	THIS PRODUCT DOES NOT DECOMPOSE UNDER NORMAL CONDITIONS. UNDER FIRE CONDITIONS THE PRODUCT WILL PRODUCE
HAZARDOUS DECOMPOSITION PRODUCTS	A MIXTURE OF IRRITATING FUMES & SMOKE & CARBON MONOXIDE.

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL EFFECTS	
Αсите Τοχιςπγ	Acute toxicity LD50 (oral) in mg/kg: > 5000
	LD50 (DERMAL) IN MG/KG: > 5000
Skin irritation	MAY CAUSE AN ALLERGIC SKIN REACTION.
EYE DAMAGE OR IRRITATION	NOT CLASSIFIED AS IRRITATING TO THE EYE (SOURCE CSR)
RESPIRATORY OR SKIN SENSITIVITY	NO DATA.
GERM CELL MUTAGENICITY	NEGATIVE. (SOURCE CSR).
CARCINOGENICITY	NOT APPLICABLE.
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	ADOPT GOOD WORKING PRACTICES, SO THAT THE PRODUCT IS NOT RELEASED INTO THE ENVIRONMENT.	
Τοχιςιτγ	VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.	
12.2	TO BE CONSIDERED AS READILY BIODEGRADABLE BASED ON ITS READY BIODEGRADABILITY. OIL DOES NOT	
PERSISTENCE & DEGRADABILITY	FULFIL THE CRITERIA FOR PERSISTENCE.	
12.3	BIO-ACCUMALATION POTENTIAL	
BIO- ACCUMULATIVE POTENTIAL		
12.4	CONSIDERED AS A READILY BIODEGRADABLE NCS. BASED ON THE READY BIODEGRADABILITY OF THE	
MOBILITY IN SOIL	NCS, SIMULATION TESTS IN SURFACE WATER, SEDIMENT AND SOIL ARE NOT REQUIRED IN ACCORDANCE	
	WITH EFFECTS.	
12.5	LIST OF SUBSTANCES DANGEROUS FOR THE ENVIRONMENT AND CORRESPONDING CLASSIFICATION:	
RESULTS OF PBT & VPVB ASSESSMENT	1% - 6% ALPHA PINENE CAS: 7785-26-4 EC: 232-077-3	



12.6	H410 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. 1% - 5% LIMONENE CAS: 5989-27-5 EC: 227-813-5 H410 VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. FISH (P.PROMELAS): LC50 33MG/L - 96H DAPHIA MAGNA: EC50 69.6 MG/L - 48H VPVB SUBSTANCES: - PBT SUBSTANCES: NONE
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 management services. Act in accordance with local & national waste regulations.

SECTION 14: TRANSPORT INFORMATION		
14.1 Transport Information		
	ROAD: 1272	
UN NUMBER	RAIL: 1272	
	AIR: 1272	
14.2 UN Shipping Name	PINE OIL	
14.3 TRANSPORT HAZARD CLASS(ES)	ADR/RID/ADN CLASS: ADR HI NO: IMDG CLASS: ICAO CLASS/DIVISION: TRANSPORT LABELS EAC – 3Y HIN - 30	3: (F1) Flammable liquids 30 3: Flammable liquids 3: Flammable liquids
14.4	ADR/RID/ADN PACKING GROUP	
PACKING GROUP	ICAO PACKING GROUP	 III
14.5 Enviromental Hazards	ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT	
14.6 Special precautions for user	None.	



14.7 Transport in bulk according to Annex 11 of MARPOL73/78 & the IBC code.	NO ADDITIONAL DATA.
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 <sup>TH</sup> 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	-

SECTION 16: OTHER INFORMATION	
Hazard and/ or Precautionary Statements in full	H226FLAMMABLE LIQUID AND VAPOUR.H228FLAMMABLE SOLID.H304MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.H315CAUSES SKIN IRRITATION.H317MAY CAUSE AN ALLERGIC SKIN REACTION.H319CAUSES SERIOUS EYE IRRITATION.H410VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.H411TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
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 merchandises 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™ April 2018	Data Launch



# **SPECIFICATION SHEET**

**PRODUCT NAME:** SPRUCE BLACK, ESSENTIAL OIL

PRODUCT INCI: PICEA MARIANA LEAF

PRODUCT CODE: OESPRUBLAC CAS NUMBER: 91722-19-9

EINECS NUMBER: 294-420-3

MANUFACTURING METHOD: STEAM DISTILLATION

SHELF LIFE / BEST BEFORE: 24 MONTHS

ANALYTICAL DETAILS	RANGE
Appearance	LIQUID
Colour	Colourless - Yellow
Odour	CHARACTERISTIC
SPECIFIC GRAVITY @ 20°C	0.875 – 0.898
REFRACTIVE INDEX @ 20°C	1.460 – 1.480
OPTICAL ROTATION (°C)	-60.0 то -38.0

STORAGE CONDITIONS

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT

DOCUMENTATION REVIEW DATE:

24<sup>th</sup> May 2018



## Vegetarian & Vegan Suitability Statement

PRODUCT NAME: SPRUCE BLACK

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.

November 2018