

# **CERTIFICATE OF ANALYSIS**

PRODUCT NAME: SPRUCE BLACK, ESSENTIAL OIL

**BATCH NUMBER: 4362204** 

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: JUNE 2022

Analytical Details	RANGE	RESULTS
Appearance	LIQUID	-
Colour	COLOURLESS - YELLOW	-
Odour	Characteristic	-
SPECIFIC GRAVITY @ 20°C	0.875 – 0.898	0.893
REFRACTIVE INDEX @ 20°C	1.460 – 1.480	1.469
OPTICAL ROTATION (°C)	-60.0 то -38.0	-44.2

#### **STORAGE CONDITIONS**

STORE IN A COOL DRY PLACE AWAY FROM HEAT & SUNLIGHT



# Allergen Declaration:

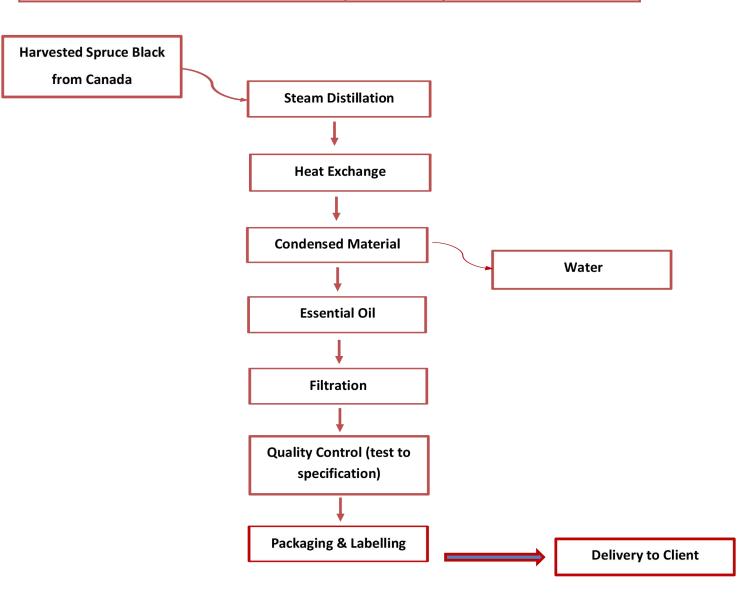
PRODUCT NAME:	Spruce Black, Essential			
INCI:	Picea Mariana Leaf			
1000	COSMETIC ALLERGENS			
The Fol	lowing is from the 7th amendment of the cosmetic directive of the European Union Annex iii.			
nex Illa Reference:		CAS NUMBER:	TOTAL ALLERGEN INCLUSION (%):	
67	AMYL CINNAMAL	122-40-7	0.00	
68	BENZYL 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	AMYLCIN-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- METHYLPENTYLCYCLOHEXENECARBOXALDEHYDE	31906-04-4	0.00	
80	ANISE ALCOHOL	105-13-5	0.00	
81	BENZYL CINNAMATE	103-13-3	0.00	
			0.00	
82	FARNESOL	4602-84-0		
83	BUTYLPHENYL METHYLPROPIONAL	80-54-6	0.00	
84	LINALOOL	78-70-6	0.00	
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	20.0 - 30.0	
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			
e following is from the commission	n directive 2007/68/EC of 27th November 2007 amending Annex Ilia to Directive 200/13/EC of the European Parlic	ament & Council with regards to specific food ing	redients.	
nex 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	NO	YES
12	SULPHUR DIOXIDE & SULPHITES	NO	NO NO	NO NO
12				
12				
13 14	LUPIN MOLLUSC	NO NO	NO 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

 $\ensuremath{\mathsf{MADAR}}$  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



$\boldsymbol{J}$	
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	Class 11.B

fabrics, tights with moisturizers); Odored Distilled Water (that can be added to steam irons).



## **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	SPRUCE BLACK, ESSEN	TIAL OIL			
BIOLOGICAL DEFINITION	Picea Mariana Leaf	OIL IS AN ESSE	NTIAL OIL OBTAINED FROM THE LEAV	VES OF THE SPRUCE, P	PICEA MARIANA, PINACEAE.
INCI NAME	Picea Mariana Leaf Oil.				
SYNONYMS & TRADE NAMES					
INTERNAL PRODUCT CODE	OESPRUBLAC	OESPRUBLAC			
CAS-No	91722-19-9	EC No.	294-420-3	EINECS No.	294-420-3
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



2.1	T
CLASSIFICATION OF THE SUBSTANCE OR MIXTURE	THE FULL TEXT FOR ALL HAZARD STATEMENTS IS DISPLAYED IN SECTION 16.
CLASSIFICATION (67/548/EEC)	NO ADDITIONAL DATA AVAILABLE.
CLASSIFICATION (EU1272/2008)	Flam. Liq. 3 (H226) ASP. Tox. 1 (H304) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) AQU. CHRON. 1 (H410)
2.2 LABEL ELEMENTS	Label in accordance with Regulation (EC) No 1272/2008.
GHS LABEL	GHS02 GHS07 GHS08 GHS09
Signal Word	DANGER.
Contains	DELTA-3-CARENE, ALPHA-PINENE, BETA-PINENE, LIMONENE, CAMPHENE.
HAZARDS STATEMENT	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.
PRECAUTIONARY STATEMENTS	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.
SUPPLEMENTARY PRECAUTIONARY STATEMENTS	-
	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

#### **SECTION 3: COMPOSITION OF INGREDIENTS**

PBT OR VPVB ACCORDING TO ANNEX XIII

NO DATA

**SECTION 2: HAZARDS IDENTIFICATION** 



	<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
	<b>10-20</b> % ALPHA-PINENE CAS-No.: 80-56-8 EC No.: 201-291-9
3.2 MIXTURES	CLASSIFICATION (EC 1272/2008) FLAM. LIQ. 3 - H226, SKIN IRRIT. 2 - H315, SKIN SENS. 1 - H317, ASP. TOX. 1 - H304
	<b>2-4</b> % <b>BETA-PINENE</b> CAS. NO: 127-91-3
	CLASSIFICATION (EC 1272/2008); DANGER, FLAM. LIQ. 3 – H226, SKIN SENS. 1 – H317, ASP TOX. 1 – H304, AQUATIC CHRONIC 1 – H410
	1-4% DELTA-3-CARENE 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.

SPECIAL TREATMENT REQUIRED	
<b>SECTION 5: FIRE FIGHTING MEASURES</b>	
5.1	FOAM, CO2, DRY CHEMICAL POWDER.
EXTINGUISHING MATERIAL	Torwy 602, pixt Gilement Torvota
5.2	
SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR	Burning produces irritating, toxic and obnoxious fumes
MIXTURE	
5.3	SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:
ADVICE FOR FIRE-FIGHTERS	WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND APPROPRIATE PROTECTIVE CLOTHING.

# 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. DO NOT DISCHARGE INTO DRAINS, WATER COURSES OR ONTO THE GROUND. DISPOSE OF IN LINE WITH LOCAL AUTHORITY ENVIRONMENTAL PRECAUTIONS GUIDELINES. 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.
REFER 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.

**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** 

**CONTROL PARAMETERS** 

NO DATA.

8.2 **EXPOSURE CONTROLS** 



**EYE PROTECTION** 

WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION.

**HAND PROTECTION** 

WEAR PROTECTIVE GLOVES/EYE PROTECTION/FACE PROTECTION. UNDER NORMAL CONDITIONS OF USE AND WHERE ADEQUATE VENTILATION IS AVAILABLE TO PREVENT BUILD UP OF EXCESSIVE

RESPIRATORY EQUIPMENT

VAPOUR, THIS MATERIAL SHOULD NOT REQUIRE SPECIAL ENGINEERING CONTROLS. HOWEVER, IN CONDITIONS OF HIGH OR PROLONGED USE, OR HIGH TEMPERATURE OR OTHER CONDITIONS WHICH INCREASE EXPOSURE, THE FOLLOWING ENGINEERING CONTROLS CAN BE USED TO MINIMISE EXPOSURE TO PERSONNEL: A) INCREASE VENTILATION OF THE AREA WITH LOCAL EXHAUST 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 REFER TO SECTIONS 2 AND 7. GOOD PERSONAL HYGIENE PRACTICES ARE ALWAYS ADVISABLE, ESPECIALLY WHEN WORKING WITH CHEMICALS / OILS.

HYGIENE MEASURES

**SKIN PROTECTION** 

**ENGINEERING MEASURES** NONE.

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**

**PHYSICAL & CHEMICAL PROPERTIES** 

APPEARANCE LIQUID

COLOUR

YELLOW - RED BROWN

**O**DOUR

CHARACTERISTIC

RELATIVE DENSITY

APPROX 0.886 @ 20°C

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42°C		
APPROX. 1.470 @ 20°C		
INSOLUBLE IN WATER.		
NO DATA.		
SECTION 10: STABILITY & REACTIVITY		
Presents no significant reactivity hazards, by itself or in contact with water. Stable under normal temperature and storage conditions and recommended use.		
Stable under suggested storage conditions (<15°C).		
No.		
STORAGE AT HIGH TEMPERATURES. DO NOT STORE ABOVE 15°C.		
P.V.C		
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 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		

SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	ADOPT GOOD WORKING PRACTICES, SO THAT THE PRODUCT IS NOT RELEASED INTO THE ENVIRONMENT.  VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
12.2 PERSISTENCE & DEGRADABILITY	TO BE CONSIDERED AS READILY BIODEGRADABLE BASED ON ITS READY BIODEGRADABILITY. OIL DOES NOT FULFIL THE CRITERIA FOR PERSISTENCE.
12.3 BIO- ACCUMULATIVE POTENTIAL	BIO-ACCUMALATION POTENTIAL
12.4 MOBILITY IN SOIL	CONSIDERED AS A READILY BIODEGRADABLE NCS. BASED ON THE READY BIODEGRADABILITY OF THE NCS, SIMULATION TESTS IN SURFACE WATER, SEDIMENT AND SOIL ARE NOT REQUIRED IN ACCORDANCE WITH EFFECTS.
12.5 RESULTS OF PBT & VPVB ASSESSMENT	LIST OF SUBSTANCES DANGEROUS FOR THE ENVIRONMENT AND CORRESPONDING CLASSIFICATION:  1% - 6% ALPHA PINENE  CAS: 7785-26-4 EC: 232-077-3



	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
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 MANAGEMENT SERVICES. ACT IN ACCORDANCE WITH LOCAL & NATIONAL WASTE REGULATIONS.

#### **SECTION 14: TRANSPORT INFORMATION**

14.1 TRANSPORT INFORMATION

TRANSPORT HAZARD CLASS(ES)

UN SHIPPING NAME

14.2

14.3

14.4

**PACKING GROUP** 

UN NUMBER

**ROAD: 1272 RAIL: 1272** AIR: 1272

PINE OIL

ADR/RID/ADN CLASS: ADR HI NO:

IMDG CLASS:

ICAO CLASS/DIVISION:

3: (F1) FLAMMABLE LIQUIDS

3: FLAMMABLE LIQUIDS 3: FLAMMABLE LIQUIDS

TRANSPORT LABELS



EAC - 3Y

HIN - 30

ADR/RID/ADN PACKING GROUP

IMDG PACKING GROUP

Ш Ш

ICAO PACKING GROUP

Ш

ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT

14.5 **ENVIROMENTAL HAZARDS** 

14.6 **SPECIAL PRECAUTIONS FOR USER** 

NONE.

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14.7	
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 & THE IBC	
CODE.	

NO ADDITIONAL DATA.

No 716).

H226

#### **SECTION 15: REGULATORY INFORMATION**

15.1
PRODUCT SPECIFIC SAFETY, HEALTH & ENVIRONMENTAL REGULATIONS &
LEGISLATION

REGULATION (EC) NO 1907/2006 of the European Parliament and of the council of  $18^{\text{TH}}$ 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

**EU DIRECTIVES** 

regulation (EC) No 1488/94 as well as council directive 76/769/EEC & commission DIRECTIVE 91/155/ECC, 93/67/ECC, 93/105/EEC & 2000/21/EC (INCLUDING AMENDMENTS). THE CHEMICALS (HAZARD INFORMATION & PACKAGING FOR SUPPLY REGULATIONS 2009 (S.I.2009

APPROVED CODE OF PRACTICE

STATUTORY INSTRUMENTS

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**

**ABBREVIATIONS & ACRONYMS:** 

HAZARD AND / OR PRECAUTIONARY STATEMENTS IN FULL

FLAMMABLE LIQUID AND VAPOUR. H228 FLAMMABLE SOLID.

H304

MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS.

H315 CAUSES SKIN IRRITATION.

H31*7* MAY CAUSE AN ALLERGIC SKIN REACTION. H319

CAUSES SERIOUS EYE IRRITATION. H410

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. H411 TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

TRAINING INSTRUCTIONS: REFER TO POSSIBLE HAZARD BEFORE USE OF THIS PRODUCT.

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). INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY RAIL.

RID 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 <sup>™</sup> 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>™</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