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Material Safety Data Sheet **BLACK SPRUCE CANADA ORGANIC**

Picea mariana Miller

1 - IDENTIFICATION OF THE SUBSTANCE

1.1- Product identifier BLACK SPRUCE CANADA ORGANIC

1.2 - Relevant identified uses of the substance and uses advised against

Number available May 31, 2018

1.3 - Details of the supplier

1.4 - Emergency telephone number

2 - HAZARDS IDENTIFICATION

2.1 - Classification of the substance

2.1.1 - Classification according to Regulation (EC) n° 1272/2008

2.1.2 - Classification according to Directive n° 67 /548/EEC

Classification procedure established according to the current IFRA* / IOFI* Labelling Manual and all ingredients classified according to

Regulation (EC) n° 1272/2008

Xn Harmful

Hazard class and Hazard category Hazard Statement

Flam. Liq. 3 (FL 3) H226 Flammable liquid and vapour.

Asp. Tox. 1 (AH 1) H304 May be fatal if swallowed and enters airways.

Eye Irrit. 2 (EDI 2) H319 Cause serious eye irritation.

Skin Sens. 1 (SS 1) H317 May cause an allergic skin reaction.

Aquatic Acute 1, Aquatic Chronic 1 (EH A1,C1) H410 Very toxic to aquatic life with long lasting effects.

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CLP* classification system : According to Regulation (EC) n° 1272/2008 and appendices, and the current version of IFRA* / IOFI* Labelling Manual.

DSD* classification system : According to Directive n° 67/548/EEC, 1999/45/EC and appendices, and the current version of IFRA* / IOFI* Labelling Manual.

Information taken from specialist publications and information in the company's possession is also taken into account.

Other hazards :See the recommendations concerning the storage of classified products .

2.1.3 - Additional information

2.2 - Labelling elements

For the full text of risk phrases, hazard classes and categories, and H and EUH hazard statements, see section 16.

HAZARD PICTOGRAM(S)

SIGNAL WORD

HAZARD STATEMENT(S)

2.3 - Other hazards

Allergens (according to

Cosmetic Directive

2003/15/EC)

: D-Limonene (<= 5,00%)

PRECAUTIONARY STATEMENT(S)

ADDITIONAL HAZARD INFORMATION(S)

Not regulated

CMR* substances not requiring classification

: **None**

See also section 11.6

N Dangerous for environment

R10 Flammable

R36 Irritating to eyes

R43 May cause sensitisation by skin contact

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65 Harmful: may cause lung damage if swallowed

GHS02

GHS07

GHS08

GHS09

Danger

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H319 Cause serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor, physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P305 + P351 + P338

P501 Dispose of contents/the container in accordance with current legislation.

3 - COMPOSITION / INFORMATION ON INGREDIENTS

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3 - COMPOSITION / INFORMATION ON INGREDIENTS

3.1 - Type of product

Matter: NCS, Natural Complex Substance (100% pure and natural), Essential Oil.

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

NOP certified by ECOCERT SA F-32600

3.2 - Dangerous ingredients

3.2.1 - Classification according to Regulation (EC) n° 1272/2008

<= 22,00 %

N° CAS : 79-92-5

Camphene

N° EINECS : 201-234-8

Flam. Sol. 2, H228; Eye Irrit. 2, H319; Aquatic Acute 1, Aquatic Chronic 1, H410

<= 18,00 %

N° CAS : 80-56-8

Alpha pinene

N° EINECS : 201-291-9

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Sens. 1, H317; Aquatic Acute 1, Aquatic Chronic 1, H410

<= 11,00 %

N° CAS : 13466-78-9

Delta 3 carene

N° EINECS : 236-719-3

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Sens. 1, H317; Aquatic Chronic 2, H411

<= 7,00 %

N° CAS : 127-91-3

Beta pinene

N° EINECS : 204-872-5

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Sens. 1, H317; Aquatic Acute 1, Aquatic Chronic 1, H410

<= 6,00 %

N° CAS : 123-35-3

Myrcene

N° EINECS : 204-622-5

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 3, H412

<= 5,00 %

N° CAS : 5989-27-5

D-Limonene

N° EINECS : 227-813-5

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, Aquatic Chronic 1, H410

<= 3,00 %

N° CAS : 555-10-2

Beta phellandrene

N° EINECS : 209-081-9

Flam. Liq. 3, H226; Asp. Tox. 1, H304

<= 3,00 %

N° CAS : 507-70-0

Borneol

N° EINECS : 208-080-0

Flam. Sol. 2, H228

<= 3,00 %

N° CAS : 586-62-9

Terpinolene

N° EINECS : 209-578-0

Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411

<= 2,00 %

N° CAS : 562-74-3

4-Terpinenol

N° EINECS : 209-235-5

Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319

<= 2,00 %

N° CAS : 98-55-5

Alpha terpineol

N° EINECS : 202-680-6

Skin Irrit. 2, H315; Eye Irrit. 2, H319

<= 2,00 %

N° CAS : 470-82-6

Cineol 1,8 (Eucalyptol)

N° EINECS : 207-431-5

Flam. Liq. 3, H226

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3.2.2 - Classification according to Directive n° 67 /548/EEC**3.3 - Additional information**

For the full text of risk phrases, safety phrases, hazard classes and categories, and H and EUH hazard statements, see section 16.

<= 22,00 %

N° CAS : 79-92-5

Camphene

N° EINECS : 201-234-8

N, Xi, R36, R50/53

<= 18,00 %

N° CAS : 80-56-8

Alpha pinene

N° EINECS : 201-291-9

N, Xn, R43, R50/53, R65

<= 11,00 %

N° CAS : 13466-78-9

Delta 3 carene

N° EINECS : 236-719-3

N, Xn, R10, R43, R51/53, R65

<= 7,00 %

N° CAS : 127-91-3

Beta pinene

N° EINECS : 204-872-5

N, Xn, R43, R50/53, R65

<= 6,00 %

N° CAS : 123-35-3

Myrcene

N° EINECS : 204-622-5

Xn, R52/53, R65

<= 5,00 %

N° CAS : 5989-27-5

D-Limonene

N° EINECS : 227-813-5

N, Xi, R10, R38, R43, R50/53

<= 3,00 %

N° CAS : 555-10-2

Beta phellandrene

N° EINECS : 209-081-9

Xn, R65

<= 3,00 %

N° CAS : 507-70-0

Borneol

N° EINECS : 208-080-0

F, R11

<= 3,00 %

N° CAS : 586-62-9

Terpinolene

N° EINECS : 209-578-0

N, Xn, R51/53, R65

<= 2,00 %

N° CAS : 562-74-3

4-Terpinenol

N° EINECS : 209-235-5

Xn, R22, R38

<= 2,00 %

N° CAS : 98-55-5

Alpha terpineol

N° EINECS : 202-680-6

Xi, R38

<= 2,00 %

N° CAS : 470-82-6

Cineol 1,8 (Eucalyptol)

N° EINECS : 207-431-5

R10

4 - FIRST AID MEASURES

4.1 - Description of first aid measures required

Skin contact Rinse with plenty of water and change clothing if necessary. If irritation persists or if skin lesions of any kind

appear, seek medical advice.

:

Excessive inhalation Remove victim to fresh air. Keep them warm and allow them to rest quietly. If harmful effects persist or worsen,

call a doctor. If patient is unconscious, place them in the lateral recovery position and call a doctor immediately.

Make sure the area is well ventilated.

:

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SE-FDS-CLP-SECTION 06

4.2 - Most important, acute or delayed symptoms/effects

4.3 - Information regarding emergency medical care or special treatment

Eye contact Rinse immediately with plenty of running water (minimum 2 litres), opening the eyes wide under the tap. If

possible, lift the upper eyelid and rinse. If irritation persists or if skin lesions of any kind appear, consult an eye specialist, taking the product with you. If you wear contact lenses, rinse your eyes immediately. The lenses will probably fall out during rinsing. If not, remove them after rinsing. Do not put them back in. If you wear soft contact lenses, throw them away even if new. Hard contact lenses may be used again after proper cleaning by an eyecare professional. In all cases, do not wear contact lenses after the accident without the advice of an eye specialist.

:

Ingestion Rinse the mouth out with water. Remove victim to fresh air. Keep them warm and allow them to rest quietly. Do

not induce vomiting unless otherwise directed by a medical professional. If vomiting occurs spontaneously, keep head low down to prevent aspiration into the lungs. If harmful effects persist or worsen, call a doctor. If patient is unconscious, place them in the lateral recovery position and call a doctor immediately. Make sure the area is well ventilated.

:

In general, in case of doubt or if symptoms persist, ask for medical advice. Never give anything by ingestion to an unconscious person. Il est

recommandé que ceux qui dispensent les premiers soins disposent d'un équipement de protection individuelle.

Aucune initiative ne doit être

prise qui implique un risque individuel ou en l'absence de formation appropriée.

For further details regarding symptoms and effect on health, see section 11.

No special treatment necessary. Symptomatic treatment required. Contact a poison specialist immediately if large quantities have been ingested or inhaled.

5 - FIRE-FIGHTING MEASURES

5.1 - Extinguishing media

5.2 - Special hazards arising from the substance

5.3 - Advice to fire-fighters

Direct jet of water.

Carbon dioxide (CO₂) or powder fire extinguisher (ABC Classes), foam extinguisher.

Avoid breathing in vapour or smoke emitted. Use a mask if necessary.

Do not attempt to fight the fire with water, which tends to feed rather than smother the flames. Essential oils have the ability to float on water and

this causes the fire to propagate more quickly. To put out an essential oil-based fire in its early stages, use a specific ABC dry powder fire

extinguisher (or equivalent). Small fires can be smothered by covering with earth, sand or a blanket.

Possible production of toxic fumes under fire.

Suitable extinguishing

media

Unsuitable extinguishing

media

6 - ACCIDENTAL RELEASE MEASURES

6.1 - Personal safety precautions, protective equipment and emergency procedures

6.2 - Environmental protection precautions

6.3 - Containment and cleaning methods and equipment

Remove all possible ignition sources. Ventilate the premises. Do not smoke.

Large spills must first be absorbed with inert material which must then be swept up and disposed of in accordance with the regulations in force.

Avoid contaminating the drainage system, surface water or ground water. Dispose of any contaminated cloths, sponges, etc. in accordance with the regulatory instructions in force.

6.4 - Reference to other sections

For personal protection, see section 8.

For waste disposal, see section 13.

7 - HANDLING AND STORAGE

7.1 - Precautions for safe handling

7.1.1 - Recommendations

Avoid contact, do not inhale hot vapour, do not ingest, work under an extraction hood or arm. Evacuate all unnecessary personnel not wearing protective clothing. Do not touch or step in the spilled product. Ensure adequate ventilation. If the ventilation system is inadequate, wear an appropriate respiratory protection device.

a) Personal

precautions

Keep in original container or other approved container made from a compatible material and keep tightly closed when not in use. Do not reuse empty containers as they can hold product residues.

b) Incompatibilities

Avoid discharge into the environment. Work in containment area. Use an appropriate container to avoid contaminating the surrounding environment.

c) Environment

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7.2 - Safe storage taking all incompatibilities into account

7.1.2 - Hygiene measures

It is forbidden to eat, drink or smoke in areas where this product is handled, stored or used. Personnel are recommended to wash their hands

after using the product and remove contaminated clothing and protective equipment before entering eating or rest areas or toilets.

a) How to avoid creating :

i) explosive atmospheres : No risk at ambient temperature; observe ATEX* requirements.

ii) corrosive conditions : Store in stainless steel or amber glass containers if possible

7.3 - Specific end use(s)

Comply with the regulations and product data sheet. No specific recommendations. Apply the above handling guidelines.

a fire hazard : Do not heat over a naked flame; do not expose the vapours to a naked flame or any other ignition source. Do not smoke

while handling the product. During incorporation, the product must be kept at a relatively low temperature. If it is necessary to raise the temperature, this must be done with caution and for as short a time as possible.

iii)

evaporation conditions : Store in closed containers protected from heat and light. Opened containers must be carefully reclosed and kept upright to avoid leakage.

v)

storing with incompatible substances or mixtures : Label according to the regulations in force, refer to chemical incompatibility table

(INRS* -Storage and transfer of hazardous chemicals).

iv)

potential ignition sources (including electrical equipment) : Hot surfaces, naked flames, hot gases, mechanically produced sparks and

ionizing radiation should be kept to a minimum or avoided completely. Have electrical equipment and wiring checked periodically by an approved electrician. Avoid static discharge by earthing your metal appliances. Protect electrical equipment from lightning by installing a lightning arrester.

vi)

b) How to control the effects of :

i) weather conditions : Do not store outside.

ii) ambient pressure : No known hazard.

temperature : Store in a temperate area; to avoid drastic differences in temperature, insulate the facility as much as possible or store in a cold room.

iii)

v) humidity : Store in properly closed containers.

iv) solar radiation : Store in opaque containers (preferably stainless steel or amber glass)

vi) vibration : Store in strong, properly closed containers.

c) How to preserve the integrity of the substance using :

i) stabilizers : Store under a nitrogen blanket if possible.

ii) antioxidants : An antioxidant may be added; see regulations in force.

d) Other points :

ventilation requirements : See regulations in force. Good overall ventilation should be sufficient to limit the operator's exposure to molecules suspended in the air.

i)

ii) the specific design of storage rooms and tanks : See regulations in force.

iii) maximum storable quantities : See regulations in force.

iv) packaging compatibility : Avoid PVC.

8 - EXPOSURE CONTROL - PERSONAL PROTECTION

8.1 - Control parameters

8.1.3 - Recommended monitoring procedures

8.1.1 - Occupational exposure limits (INRS*, ND2098, Directive 91/322/EC and 200/39/EC)

If this product contains ingredients involving exposure limits, it may be necessary to carry out regular tests on the atmosphere in the work area

as well as on people and other living organisms, to determine the effectiveness of the ventilation, or other checks, or assess the need to use

respirators. It is important to refer to European standard EN 689 which gives the methods for assessing exposure to chemical agents by

inhalation and national general policy documents relating to the methods for determining dangerous substances.

8.1.2 - Biological limit values (database of chemicals GESTIS: www.dguv.de)

8.1.4 - DNEL* (section 1.4 appendix I) / PNEC* (section 3.3 appendix I)

Not regulated. No specific exposure limits for this product.

Not regulated. No biological limit values established for this product.

A chemical safety report (CSR) is not required according to the regulations. DNEL* and PNEC* are therefore not applicable to this product.

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8.2.3 - Exposure control related to environmental protection

Comply with local environmental protection laws.

8.1.5 - Risk management measures according to used control banding approach (ICCT*)

8.2 - Exposure control

8.2.1 - Appropriate technical control

Maintain concentration levels in the air below the occupational exposure limits defined in the standards.

Utilize localized extraction equipment.

Make use of mechanical handling equipment to reduce human contact with the products.

8.2.2 - Personal protection measures

a) Eye and face

protection:

Protective glasses or goggles should be worn.

b) Skin protection: Waterproof gloves that are resistant to essential oils and comply with an approved standard should be worn

(nitrile rubber or polyvinyl alcohol (PVA)).

c) Respiratory

protection:

Not generally necessary if the area is well ventilated (unless otherwise indicated).

d) Heat exposure

hazards

Exposure to a heat flux from a fire or explosion can cause burns of varying degrees, depending on the distance from the heat source. It is essential to wear appropriate protective equipment as well as an autonomous respiratory protection device.

If necessary refer to the website: www.ilo.org

:
:
:
:

Task Hazard band
Scale of use Ability to become
airborne
Control approach Control Guidance
Sheets

N.A. N.A. N.A. N.A. N.A. N.A.

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9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 - Information on physical and chemical properties

9.2 - Other information

Value Methods

- a) **Appearance** Liquid internal
- b) **Color** Colorless to yellow internal
- c) **Odour** Fresh, resinous and balsamic internal
- d) **pH (20 °C)** Not applicable /
- e) **Melting point** Not available /
- f) **Initial boiling point and boiling range** Not available /
- g) **Flash point** +46 °C FD ISO/TR 11018 (vacuum)
- h) **Evaporation rate (butyl acetate = 1)** Not available /
- j) **Upper / lower flammability** Not available /
- i) **Flammability** Not available /
- k) **Vapor pressure at 25 °C** Not available /
- l) **Density of vapor (air = 1)** Not available /
- m) **Relative density at 20 °C** 0,900 to 0,920 NF ISO 279
- n) **Solubilities**

Solubility in water Insoluble /

Alcohol Solubility (20 ° C in g/l) Soluble NF ISO 875

o) **Partition coefficient : n-Octanol/Water (log Po/w)** Not available /

p) **Auto ignition temperature** Not available /

q) **Decomposition temperature** Not available /

r) **Viscosity** Not available /

s) **Explosive properties** Lower limit : Not available

Combustions properties Does not contain any substance known to be

susceptible to self-ignite

t) /

Upper limit : Not available /

Explosion hazards : No risk at room temperature,

comply to ATEX requirements.

Value Methods

Refractive index at 20°C 1,467 to 1,472 NF ISO 280

Optical rotation at 20°C -30 ° to -25 ° NF ISO 592

Main ingredients Bornyl acetate (25,00 to 31,00%) GC*

Camphene (16,00 to 22,00%)

Alpha pinene (12,00 to 18,00%)

Delta 3 carene (4,00 to 11,00%)

10 - STABILITY AND REACTIVITY

10.1 - Reactivity

10.2 - Chemical stability

This product is shock-, vibration- and pressure-resistant under normal usage conditions.

Exposure to light or heat may cause oxidation.

No significant change in composition over time if the storage conditions described in paragraph 7.2 are observed.

Do not heat to a high temperature. Do not expose closed containers to direct sunlight. Keep away from ignition sources.

10.3 - Possibility of dangerous reactions

None to our knowledge under normal usage conditions.

10.4 - Condition to avoid

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P.V.C.

The product does not decompose under normal usage conditions.

10.5 - Incompatible materials

10.6 - Dangerous product decomposition

11 - TOXICOLOGICAL INFORMATION

11.1 - Reactivity

a) Acute toxicity

b) Skin corrosion / irritation

No significant effects or critical hazards.

c) Serious eye damage / irritation

d) Respiratory or skin sensitisation

e) Germ cell mutagenicity

f) Carcinogenicity

g) Toxicity for reproduction

h) STOT - single exposure

i) STOT - repeated exposure

j) Aspiration hazard

No significant effects or critical hazards.

No significant effects or critical hazards.

No significant effects or critical hazards.

Hazards assessed using the methods described in Regulation (EC) No 1272/2008 and appendices for the case of complex natural

substances and / or mixtures. They are also complemented by the RIFM* monographs, INRS* and IFRA*.

Value Remarks

Oral ingestion Not available /

Dermal absorption Not available /

Methods

Oral ingestion in rats

Dermal application in rabbits

Effect dose

LD50 org.

LD50 derm.

Inhalation LC50 N.A. / /

Cause serious eye irritation.

May cause an allergic skin reaction.

May be fatal if swallowed and enters airways.

Affected organs Remarks

Acute oral toxicity N.A. /

Acute dermal toxicity N.A. /

Specific effects

N.A.

N.A.

Acute inhalative toxicity N.A. N.A. /

Single exposure

Affected organs Remarks

Sub-acute oral N.A. /

Sub-acute dermal N.A. /

Specific effects

N.A.

N.A.

Chronic inhalative N.A. N.A. /

Repeated exposure

Sub-acute inhalative N.A. /

Sub-chronic oral N.A. /

N.A.

N.A.

Sub-chronic dermal N.A. /

Sub-chronic inhalative N.A. /

N.A.

N.A.

Chronic oral N.A. /

Chronic dermal N.A. /

N.A.

N.A.

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11.2 - Information on the likely routes of exposure

No specific data.

No specific data.

No specific data.

11.3 - Symptoms related to physical, chemical and toxicological

No specific data.

11.4 - Delayed, immediate and chronic effects of short-and long-term

11.5 - Interactive effects

11.6 - Information on ingredients

This substance and/or some of its components are covered by the Code of Practice of the IFRA in effect, available on the internet website

www.ifraorg.org

11.7 - Other information

CMR* : None

12 - ECOLOGICAL INFORMATION

12.1 - Toxicity

Aquatic toxicity

12.2 - Persistence and degradability

b)

c) Longterm-ecotoxicity

a) Abiotic degradation

b) Biodegradation

a) Danger to the aquatic environment according to Regulation (EC) n° 1272/2008

Exposure time Methods

Acute fish toxicity 96h /

Acute daphnia toxicity 48h Acute immobilisation test

Effect dose

LC50

EC50

Acute algae toxicity IC50 72h /

Aquatic toxicity Results

N.A.

Not available

N.A.

Exposure time Methods

Longterm fish toxicity N.A. /

Effect dose

LC50

Chronic daphnia toxicity EC50 N.A. /

Longterm-ecotoxicity Results

N.A.

N.A.

Remarks

Sea-water /

Fresh water /

Evaluation

N.A.

N.A.

Soil N.A. /

Half time Methods

/

/

/

Air N.A. //

Evaluation Remarques

N.A. N.A. /

Temps

N.A.

N.A. N.A. N.A. /

Degradation rate (%) Méthodes

/

/

Very toxic to aquatic life with long lasting effects.

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To our knowledge, no such assessment has been carried out on this product to date.

12.3 - Bioaccumulative potential

Water hazardous class (WGK*) according to Annex 2 of the German directive Hazardous Materials (No. carac.: 814;

17.05.1999 organics

materials): Not available

12.4 - Mobility in soil

12.5 - Results of PBT* and vPvB* assessment

12.6 - other adverse effects

a) Partition coefficient n-octanol / water (log Ko/w)

b) Bioconcentration factor (BCF)

a) Surface tension

b) Adsorption / Desorption

pH Remarks

N.A. N.A. /

Concentration

N.A.

N.A. N.A. N.A. /

Value Methods

/

/

°C

N.A.

N.A.

Evaluation Remarks

N.A. N.A. /

Species

N.A.

N.A. N.A. N.A. /

Value Methods

/

/

Concentration Remarks

N.A. N.A. /

°C

N.A.

N.A. N.A. N.A. /

Value Methods

/

/

log Koc Methods**Soil - Water** N.A. /**A/D coefficient Henry constant**

N.A.

Soil-Air N.A. N.A. /**Transport Volatility rate**

N.A.

N.A.

Water-Air N.A. N.A. N.A. /**Page : 11 / 15 BLACK SPRUCE Canada Organic**©NHR Organic Oils SA - Reproduction prohibited by any means, except for the purpose of citation, with reference to the origin or when the use or the product marketing covered by this document and supplied by NHR Organic Oils S.A.- France, to the exclusion of all another origin.**BLACK SPRUCE ©NHR ORGANIC OILS Essential oils Canada Organic****14 - TRANSPORT INFORMATION****14.1 - ADR***

Comply with international dangerous goods regulations in force.

ADR/RID Class**Packing group**

1272

Land transport ADR/RID (Ruling on transport of dangerous goods - road and train)

III

3

Marine pollutant No**N° UN**

:

:

:

Dispatch Name : HUILE DE PIN**IMDG Class****Packing group**

1272

Maritime transport IMDG (Ruling on transport of dangerous goods)

III

3

N° UN

:

:

:

Dispatch Name : PINE OIL

:

ICAO/IATA Class**Packing group**

1272

Air transport ICAO-TI and IATA-DGR

III

3

N° UN

:

:

:

Dispatch Name : PINE OIL**14.2 - IMDG*****14.3 - IATA*****14.4 - Specific precautions for the user**

Guidelines on loading goods for carriage by road:

-See Table 7.5.2 of the ADR* for mixed loading prohibitions.

-Precautions relating to foodstuffs, other consumer goods and animal feed.

-During loading operations, smoking is prohibited in and around the vehicles.

Code Tunnel : A,B,C,D**13 - DISPOSAL CONSIDERATIONS****13.1 - Waste treatment methods**

Do not discharge into drainage systems or watercourses.

Waste should be recycled or disposed of according to the legislation in force, preferably by an approved recycling or waste treatment company.

Do not pollute the soil or water; do not dispose of waste in the environment.

Empty containers completely. Do not remove labels. Use an approved waste disposal company.

13.2 - Additional information

The regulations relating to waste are codified in the French Environmental Code, according to Act No 2000-914 of 18 September 2000 relating to the legislative part of the Environmental Code. The text of Articles L. 541-1 to L. 541-50 is found in Book V (Prevention of pollution, risks and nuisances), Section IV (Waste), Chapter I (Waste disposal and materials recovery).

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Customs rate code : 3301 29 41 00

Comment: The regulatory provisions given above are those in force when the data sheet was updated. However, since the regulations governing the carriage of hazardous substances are always subject to change, if the MSDS in your possession is more than 12 months old, you are advised to consult your safety adviser to ensure validity.

-Check that the goods are properly secured in the vehicle.

-Check that the driver has the safety regulations and mandatory equipment if the limits defined by the ADR* are exceeded.

14.5 - Carriage in bulk in accordance with Appendix II of Marpol 73/78 and the IBC Code

Not applicable

14.6 - Additional information

15 - REGULATORY INFORMATION

15.1 - Specific health, safety and environment regulations/legislation

15.2 - Chemical safety assessment

a) Special provisions

Legislation relating to facilities classified for environmental protection purposes (ICPE) in France.

Table of occupational illnesses covered by Article R. 461-3 of the French labour code: Table No 84 -Conditions induced by liquid organic solvents used in the workplace.

b) Notes

The regulatory information given in this section is intended merely as a reminder of the main provisions that apply specifically to the product covered by the MSDS.

The original EU texts mentioned are updated and transcribed into national law.

You are recommended to refer to all local, national and international measures and provisions that might apply.

You are alerted to the possible existence of provisions other than those referred to in this document.

To our knowledge, no such assessment has been carried out on this product to date.

16 - OTHER INFORMATION

a) Latest changes

The content of the MSDS is regulated by the article 31 of the Regulation (EC) n°1907/2006 (REACH).

This version has been completely updated according to the Regulation (EC) n° 453/2010 of 20/05/2010.

NO MODIFICATIONS.

b) Abbreviations

c) References

ADR/RID : Agreement on Dangerous Goods by Road / Regulations concerning the Intl Transport of Dangerous Goods by Rail

ATEX : European explosive atmospheres directive

CLP : Classification Labelling Packaging

CMR : Carcinogenic, Mutagenic, Reprotoxic

DNEL : Derived No Effect Level

DSD : Dangerous Substances Directive

IATA-DGR : International Air Transport Association - Dangerous Goods Regulations

ICCT : Ilo Chemical Control Toolkit

ICAO-TI : International Civil Aviation Organization - Technical Instructions

IFRA : International Fragrance Association

IMDG : International Maritime Dangerous Goods

INRS : Institut National de Recherche et de Sécurité

IOFI : International Organization of the Flavor Industry

GC : Gas Chromatography

PBT : Persistent Bioaccumulating Toxicants

PNEC : Predicted No Effect Concentration

RIFM : Research Institute for Fragrance Materials

STOT : Specific Target Organ Toxicity

vPvB : Very Persistent and Very Bioaccumulative substance

WGK : Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act)"

This Material Safety Data Sheet has been issued by the Health and Safety Regulations Department Of NHR Organic Oils SA and is in compliance with :

- Regulations (EC) n° 453/2010 of 20 May 2010 and n° 1272/2008 of 16 December 2008 amending Regulation (EC) n° 1907/2006

- The IFRA* / IOFI* Labelling Manual of September 23, 2010

- The Directives 67/548/EEC and 1999/45/EC

- The Guidance on the compilation of Safety Data Sheet (ECHA - Draft October 2010)

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d) Methods used in the assessment of data (Article 9 of Regulation (EC) n° 1272/2008)

List of risk phrases, safety phrases, classes and hazard categories, hazard statements and precautionary statements

important

e)

Classification established according to the current IFRA* / IOFI* Labelling Manual and all ingredients classified according to Regulation (EC) No 1272/2008.

List of risk phrases (Directive n° 67/548/EEC)

List of safety phrases (Directive n° 67/548/EEC)

List of hazard (Regulation (EC) n° 1272/2008)

List of classes and categories of danger (Regulation (EC) n° 1272/2008)

R10 : Flammable

R11 : Highly flammable

R22 : Harmful if swallowed

R36 : Irritating to eyes

R38 : Irritating to skin

R43 : May cause sensitisation by skin contact

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65 : Harmful: may cause lung damage if swallowed

H226 : Flammable liquid and vapour.

H228 : Flammable solid.

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 : Cause serious eye irritation.

H410 : Very toxic to aquatic life with long lasting effects.

H411 : Toxic to aquatic life with long lasting effects.

H412 : Harmful to aquatic life with long lasting effects.

S24 : Avoid contact with skin

S26 : In case of contact with eyes, rinse immediately with vegetable oil and seek medical advice

S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection

S61 : Avoid release to the environment. Refer to special instructions/safety data sheet

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

:

Flam. Liq. 3 : Flammable liquid cat. 3

Flam. Sol. 2 : Flammable solid cat. 2

Acute Tox. 4 : Acute toxicity, oral cat. 4

Asp. Tox. 1 : Aspiration hazard cat. 1

Skin Irrit. 2 : Skin irritation cat. 2

Eye Irrit. 2 : Eye irritation cat. 2

Skin Sens. 1 : Skin sensitization cat. 1

Aquatic Acute 1, Aquatic

Chronic 1

: Hazardous to aquatic environment - Acute hazard cat. 1 - Chronic hazard cat. 1

Aquatic Chronic 2 : Hazardous to aquatic environment - Chronic hazard cat. 2

Aquatic Chronic 3 : Hazardous to aquatic environment - Chronic hazard cat. 3

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This MSDS complements the sheets in use, but does not replace them. The information it contains is based on the state of our knowledge about the product concerned at the time of update. They are given in good faith.

The attention of users is also drawn to the risks, if any, where a product is used for other purposes than those for which it was designed.

In no way is a user dispensed from knowing and applying the written regulations in the use of the product.

All regulatory requirements mentioned merely intend to help the user to fulfil their obligations when using a dangerous product.

This list should not be considered exhaustive. It does not dispense the user to ensure that no other obligations lie on him because of texts other than

those cited and regulating the possession and use of the product, for which he alone is responsible.

Contact : **M. HERNANDEZ Freddy**

This sheet has been updated on 01/12/2010

Number of pages : 15 Printed on : 15/09/2011 End of document

f) Advice on any appropriate training

Read the safety data sheet before using the product.

List of precautionary statements (Regulation (EC) n° 1272/2008)

P210 : Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P273 : Avoid release to the environment.

P280 : Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor, physician.

P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P501 : Dispose of contents/the container in accordance with current legislation.

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