Safety Data Sheet (SDS)

Black Spruce

1. Identification

Product identifier:	Black Spruce
Other means of identification:	Épinette Noire / Essential oil of *Picea mariana*
Recommended use and restrictions on use:	Fragrance, food additive (for ORGANIC certified version)
Initial supplier identifier:	BoreA Canada (9302-0469 Quebec Inc.) 142, de la Cogeneration Chapais, Quebec Canada, G0W 1H0 Phone: +1-514-910-1812 Email: info@boreacanada.com
Emergency telephone number (hours of operation):	+1-613-996-6666 (CANUTEC 24h)

2. Hazard Identification

GHS Classification:

FLAMMABLE LIQUID – Category 3 (Flam. Liq. 3, H226)
SERIOUS EYE DAMAGE / EYE IRRITATION – Category 2 (Eye Irrit. 2, H319)
SKIN CORROSION/IRRITATION – Category 2 and 1 (Skin Irrit. 2, H315, H317)
ASPIRATION HAZARD – Category 1 (Asp. Tox. 1, H304).
ACUTE AQUATIC TOXICITY – Category 1 (Aquatic Acute 1, H400)
CHRONIC AQUATIC TOXICITY – Category 1 (Aquatic Chronic 1, H410, H411)

GHS information elements

Hazard pictogram(s):

Signal word: Danger

Hazard statements:

H226 – Flammable liquid and vapor
H319 – Causes eye irritation
H315 – Causes mild skin irritation
H317 – Can cause cutaneous allergy
H304 – May be fatal if swallowed and enters airways.
H400 – Acute aquatic toxicity
H410 – Very toxic to aquatic organisms, causes long lasting adverse effects
H411 – Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention:	P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 – Keep container tightly closed. P264 – Wash hands thoroughly after handling P280 – Wear protective gloves. Wear eye protection/face protection.
Response:	P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301 + P310 – IF SWALLOWED: Immediately call a POISON CENTER or a doctor. P331 – Do NOT induce vomiting. P337 + P313 – If eye irritation persists: Get medical advice/attention. P332 + P313 – If skin irritation occurs: Get medical advice/attention.
Storage:	P405 – Store locked up.
Disposal:	P501 – Dispose of contents and container in accordance with local regulations.
Other known hazards:	None known.

3. Composition/Information on ingredients

Substance or mixture: Substance

Common name and synonyms: Black Spruce essential oil
Essential oil of *Picea mariana*

Composition	CAS number	Concentration
Spruce, *Picea mariana*, ext.	91722-19-9	≤ 100 %

Ingredient	CAS number	Specification
α-pinene	80-56-8	18-24%
Camphene	79-92-5	13-23%
β-pinene	127-91-3	< 8.5%
Δ3-Carene	13466-78-9	7-12%
Bornyl Acetate	76-49-3	18-25 %

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Remove the patient to open air, far from the contaminated premises; if respiration stops or is difficult, give an artificial respiration adopting the proper measure for the helper. Seek medical advice.

Ingestion: Rinse mouth with water. Do not induce vomiting before consulting a doctor.

Skin contact: Wash with soap and plenty of water. Seek medical advice.

Eye contact: Wash with plenty of water.

Most important symptoms and effects, whether acute or delayed

Inhalation: May slightly irritate the respiratory tract. May be harmful if inhaled.

Ingestion: Ingestion may be harmful. May be harmful if swallowed and enter airways.

Skin contact: May irritate skin. May be harmful if absorbed through skin.

Eye contact: May irritate eyes.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media: Do not use water jet or water-based fire extinguishers.

Specific hazards arising from the hazardous product: In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

Hazardous combustion products : Carbon oxides.

Special protective equipment and precautions for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Restrict access to area until completion of cleanup. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation.
For emergency responders:	Wear adequate personal protective equipment.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods and materials for containment and cleaning up

Spill:	Limit the spreading of the spillage with non-combustible absorbent material (sand, earth etc.). Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind.

7. Handling and storage

Precautions for safe handling:	Use appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Do not smoke while handling. Keep containers closed when not used.
Advice on general hygiene:	Eating, drinking and smoking in working areas should be prohibited. Wash hands with soap and water before meals and at the end of the work shift. Remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage, including any incompatibilities:	Store in a well ventilated place. Keep far away from sources of heat, naked flames and sparks and other sources of ignition.

8. Exposure controls/Personal protection

Control parameters:	Not available
Appropriate engineering controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
Individual protection measures:	In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall.

9. Physical and chemical properties

Appearance	
Physical state:	Liquid
Colour:	Light yellow to green
Odour:	Characteristic sweet fir needle
Odour threshold:	Not available
pH:	Not available
Melting point:	Not available
Freezing point:	Not available

Initial boiling point and boiling range:	86 °C (ASTM D 850)
Flash point:	48 °C c.c. (118°F)
Evaporation rate:	< 1 (Ether = 1)
Upper and lower flammability or explosive limits:	Not available
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	0.90 – 0.92 g/mL at 20°C
Solubility:	Insoluble
Partition coefficient — n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

10. Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product
Chemical stability:	The product is stable
Possibility of hazardous reactions:	Under normal conditions of use and storage, hazardous reactions will not occur
Conditions to avoid:	Avoid heat and all possible sources of ignition (spark or flame).
Incompatible materials:	Strong oxidizing materials.
Hazardous decomposition products:	Under normal conditions of use and storage, hazardous decomposition products should not be produced.

11. Toxicological information

Acute toxicity:

LD50 Oral (rat) > 5000 mg/kg

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: May slightly irritate the respiratory tract. May be harmful if inhaled.

Ingestion: Ingestion may be harmful. May be harmful if swallowed and enter airways.

Skin contact: May irritate skin. May be harmful if absorbed through skin.

Eye contact: May irritate eyes.

Delayed and immediate effects, and chronic effects from short-term and long-term exposure:
No known significant effects or critical hazards.

Numerical measures of toxicity:
There is no data available

12. Ecological information

Ecotoxicity

Product/Ingredient name: Not applicable

Toxicity:	No data available
Persistence and degradability:	No data available
Bio accumulative potential:	No data available
Mobility in soil:	No data available
Other adverse effects:	No data available

13. Disposal considerations

Disposal methods:	Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Contaminated packaging:	Contaminated packaging must be recovered or disposed of in compliance with Federal and Provincial waste management regulations.

14. Transport information

UN number:	UN1197
Proper shipping name:	Extracts, liquid
Hazard class:	3
Packing group:	III
Environmental hazard:	Not applicable
Special precautions:	Not applicable

15. Regulatory information

WHMIS 1988 Classification:

B3 – Combustible liquids
D2B - Materials causing other toxic effects

16. Other information

SDS information

Version:	10
Date (dd/mm/yyyy):	21/09/2023
Prepared by:	JCV

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