

## Black Spruce Essential Oil

Version number: GHS 1.0

Date of compilation: 2025-08-28

### SECTION 1: Identification

#### 1.1 Product identifier

Identification of the substance

**Black Spruce Essential Oil**

CAS number

91722-19-9

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

general use

#### 1.3 Details of the supplier of the safety data sheet

Plant Therapy LLC  
621 Washington St. S. Suite 100  
Twin Falls ID 83301  
United States

Telephone: +1 800-917-6577  
e-mail: [cs@planttherapy.com](mailto:cs@planttherapy.com)  
Website: <https://www.planttherapy.com>

#### 1.4 Emergency telephone number

Emergency information service

This number is only available during the following  
office hours: Mon-Fri 09:00 AM - 05:00 PM

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class                      | Category | Hazard class and category | Hazard statement |
|---------|-----------------------------------|----------|---------------------------|------------------|
| A.2     | skin corrosion/irritation         | 2        | Skin Irrit. 2             | H315             |
| A.3     | serious eye damage/eye irritation | 2        | Eye Irrit. 2              | H319             |
| A.4S    | skin sensitization                | 1        | Skin Sens. 1              | H317             |
| A.10    | aspiration hazard                 | 1        | Asp. Tox. 1               | H304             |
| B.6     | flammable liquid                  | 3        | Flam. Liq. 3              | H226             |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word              danger

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### - Pictograms

GHS02, GHS07, GHS08



### - Hazard statements

|      |                                               |
|------|-----------------------------------------------|
| H226 | Flammable liquid and vapor.                   |
| 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.                |

### - Precautionary statements

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P210           | Keep away from heat/sparks/open flames/hot surfaces. No smoking.                                                                 |
| P233           | Keep container tightly closed.                                                                                                   |
| P240           | Ground/bond container and receiving equipment.                                                                                   |
| P241           | Use explosion-proof electrical/ventilating/lighting equipment.                                                                   |
| P242           | Use only non-sparking tools.                                                                                                     |
| P243           | Take precautionary measures against static discharge.                                                                            |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P272           | Contaminated work clothing must not be allowed out of the workplace.                                                             |
| P280           | Wear protective gloves/eye protection/face protection.                                                                           |
| P301+P310      | If swallowed: Immediately call a poison center/doctor.                                                                           |
| P302+P352      | If on skin: Wash with plenty of water.                                                                                           |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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. |
| P321           | Specific treatment (see on this label).                                                                                          |
| P331           | Do NOT induce vomiting.                                                                                                          |
| P333+P313      | If skin irritation or rash occurs: Get medical advice/attention.                                                                 |
| P337+P313      | If eye irritation persists: Get medical advice/attention.                                                                        |
| P362           | Take off contaminated clothing and wash before reuse.                                                                            |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P370+P378      | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.                                                  |
| P403+P235      | Store in a well-ventilated place. Keep cool.                                                                                     |
| P405           | Store locked up.                                                                                                                 |
| P501           | Dispose of contents/container to industrial combustion plant.                                                                    |

## 2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Name of substance

Black Spruce Essential Oil

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**Identifiers**

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**SECTION 4: First-aid measures****4.1 Description of first-aid measures****General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

**Following inhalation**

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

**Following skin contact**

Wash with plenty of soap and water.

**Following eye contact**

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

**Following ingestion**

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms and effects are not known to date.

**4.3 Indication of any immediate medical attention and special treatment needed**

none

**SECTION 5: Fire-fighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Water jet

**5.2 Special hazards arising from the substance or mixture**

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

**Hazardous combustion products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

**6.2 Environmental precautions**

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

**6.3 Methods and material for containment and cleaning up**

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

**6.4 Reference to other sections**

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

**7.2 Conditions for safe storage, including any incompatibilities**

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

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- Flammability hazards  
Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.
- Ventilation requirements  
Use local and general ventilation. Ground/bond container and receiving equipment.
- Packaging compatibilities  
Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)  
this information is not available

### 8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                |                       |
|----------------|-----------------------|
| Physical state | liquid                |
| Color          | not determined        |
| Particle       | not relevant (liquid) |

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|      |                |
|------|----------------|
| Odor | characteristic |
|------|----------------|

### Other safety parameters

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
| pH (value)                              | not determined                    |
| Melting point/freezing point            | not determined                    |
| Initial boiling point and boiling range | not determined                    |
| Flash point                             | 48 °C 118.4 °F                    |
| Evaporation rate                        | not determined                    |
| Flammability (solid, gas)               | not relevant, (fluid)             |
| Vapor pressure                          | not determined                    |
| Density                                 | 0.905 – 0.915 g/cm <sup>3</sup>   |
| Vapor density                           | this information is not available |
| Solubility(ies)                         | not determined                    |

### Partition coefficient

|                             |                                   |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature   | not determined                    |
| Viscosity                   | not determined                    |
| Explosive properties        | none                              |
| Oxidizing properties        | none                              |

### 9.2 Other information

|                |       |
|----------------|-------|
| Liquid content | 100 % |
|----------------|-------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance. The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

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### **10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### **10.5 Incompatible materials**

Oxidizers

### **10.6 Hazardous decomposition products**

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

##### Acute toxicity

Shall not be classified as acutely toxic.

##### Skin corrosion/irritation

Causes skin irritation.

##### Serious eye damage/eye irritation

Causes serious eye irritation.

##### Respiratory or skin sensitization

May cause an allergic skin reaction.

##### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

##### Carcinogenicity

Shall not be classified as carcinogenic.

##### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

##### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

##### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

##### Aspiration hazard

May be fatal if swallowed and enters airways.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

### **12.2 Persistence and degradability**

Data are not available.

### **12.3 Bioaccumulative potential**

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Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0.1\%$ .

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number

|           |         |
|-----------|---------|
| DOT       | UN 1197 |
| IMDG-Code | UN 1197 |
| ICAO-TI   | UN 1197 |

### 14.2 UN proper shipping name

|           |                  |
|-----------|------------------|
| DOT       | Extracts, liquid |
| IMDG-Code | EXTRACTS, LIQUID |
| ICAO-TI   | Extracts, liquid |

### 14.3 Transport hazard class(es)

|           |   |
|-----------|---|
| DOT       | 3 |
| IMDG-Code | 3 |
| ICAO-TI   | 3 |

### 14.4 Packing group

|     |    |
|-----|----|
| DOT | II |
|-----|----|

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IMDG-Code II

ICAO-TI II

**14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations

**14.6 Special precautions for user**  
There is no additional information.

**14.7 Transport in bulk according to IMO instruments**  
The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

#### **Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information**

Particulars in the shipper's declaration UN1197, Extracts, liquid, 3, II

Danger label(s) 3



Special provisions (SP) 149, IB2, T4, TP1, TP8

ERG No 127

#### **International Maritime Dangerous Goods Code (IMDG) - Additional information**

Marine pollutant -

Danger label(s) 3



Special provisions (SP) -

Excepted quantities (EQ) E2

Limited quantities (LQ) 5 L

EmS F-E, S-D

Stowage category B

#### **International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information**

Danger label(s) 3



Special provisions (SP) A3

Excepted quantities (EQ) E2

Limited quantities (LQ) 1 L

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### National regulations (United States)

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)  
not listed
- Specific Toxic Chemical Listings (EPCRA Section 313)  
not listed

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)  
not listed

##### Clean Air Act

not listed

##### Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)  
not listed
- Toxic or Hazardous Substance List (MA-TURA)  
not listed
- Hazardous Substances List (MN-ERTK)  
not listed
- Hazardous Substance List (NJ-RTK)  
not listed
- Hazardous Substance List (Chapter 323) (PA-RTK)  
not listed
- Hazardous Substance List (RI-RTK)  
not listed

##### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

not listed

##### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category     | Rating | Description                                                                                                          |
|--------------|--------|----------------------------------------------------------------------------------------------------------------------|
| Chronic      | /      | none                                                                                                                 |
| Health       | 2      | temporary or minor injury may occur                                                                                  |
| Flammability | 2      | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |

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| Category            | Rating | Description                                                                                                                                                |
|---------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |                                                                                                                                                            |

### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category       | Degree of hazard | Description                                                                                                          |
|----------------|------------------|----------------------------------------------------------------------------------------------------------------------|
| Flammability   | 2                | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| Health         | 2                | material that, under emergency conditions, can cause temporary incapacitation or residual injury                     |
| Instability    | 0                | material that is normally stable, even under fire conditions                                                         |
| Special hazard |                  |                                                                                                                      |

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information, including date of preparation or last revision

### Abbreviations and acronyms

| Abbr.          | Descriptions of used abbreviations                                                                            |
|----------------|---------------------------------------------------------------------------------------------------------------|
| 49 CFR US DOT  | 49 CFR U.S. Department of Transportation                                                                      |
| CAS            | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)        |
| DGR            | Dangerous Goods Regulations (see IATA/DGR)                                                                    |
| DOT            | Department of Transportation (USA)                                                                            |
| ED             | Endocrine disruptor                                                                                           |
| EmS            | Emergency Schedule                                                                                            |
| ERG No         | Emergency Response Guidebook - Number                                                                         |
| IATA           | International Air Transport Association                                                                       |
| IATA/DGR       | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                |
| ICAO           | International Civil Aviation Organization                                                                     |
| ICAO-TI        | Technical instructions for the safe transport of dangerous goods by air                                       |
| IMDG           | International Maritime Dangerous Goods Code                                                                   |
| IMDG-Code      | International Maritime Dangerous Goods Code                                                                   |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA           | Occupational Safety and Health Administration (United States)                                                 |

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| Abbr. | Descriptions of used abbreviations       |
|-------|------------------------------------------|
| PBT   | Persistent, Bioaccumulative and Toxic    |
| vPvB  | Very Persistent and very Bioaccumulative |

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.  
 Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG).  
 Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                          |
|------|-----------------------------------------------|
| H226 | Flammable liquid and vapor.                   |
| 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.                |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.