The eScential Group

Flavors. Fragrances. Essential Oils

# TECHNICAL DATA SHEET

## JUNIPER BERRY OIL P&N

| | | | |
|---|---|---|---|
| **PRODUCT NAME:** | **Juniper Berry Oil P&N** | **REVISION DATE:** | **11/18/2026** |
| **PRODUCT CODE:** | **10-3011-BB** | **VERSION #:** | **1** |

### IDENTIFIERS:

| | |
|---|---|
| **CAS#:** | **8002-68-4** |
| **FEMA#** | **2604** |
| **BOTANICAL NAME:** | ***Juniperus communis L.*** |
| **PRODUCTION PROCESS:** | **Steam Distillation** |

### PHYSICAL PROPERTIES:

| | |
|---|---|
| **ODOR:** | **Characteristic** |
| **COLOR:** | **Colorless to Pale Yellow** |
| **APPEARANCE:** | **Liquid** |
| **SPECIFIC GRAVITY ($d_{20/20}$):** | **0.850 to 0.880** |
| **SPECIFIC GRAVITY ($d_{25/25}$):** | **0.847 to 0.877** |
| **REFRACTIVE INDEX ($_{nD20}$):** | **1.470 to 1.483** |
| **FLASH POINT:** | **41°C, 106°F** |

### STORAGE / SHELF LIFE:

| | |
|---|---|
| **STORAGE:** | **Store product in full, tightly closed containers in a cool dry place.** |
| **STABILITY / SHELF LIFE:** | **Stable for one year when stored under recommended conditions; retest after one year for acceptability.** |

**Print Date: November 18, 2026**

CONFIDENTIAL



**8 MARLEN DRIVE, HAMILTON, NEW JERSEY 08691– TEL 732-677-1100**
**E-MAIL: INFO@ESCENTIALGROUP.COM – WEBSITE: WWW.ESCENTIALGROUP.COM**

# SAFETY DATA SHEET

**In accordance with 29 CFR 1910.1200**

**Product:** Juniperberry Oil P&N 10-3011-BB

**Version:** 2

## 1. IDENTIFICATION

### Product Identifier

**Product identifier:** Juniperberry Oil P&N; CAS: 8002-68-4

**Other identifiers:** None

### Recommended use of the chemical and restrictions on use

**Product uses:** Fragrance & Flavor

### Supplier Details

**Company name:** The eScential Group

**Company address:** 8 Marlen Drive
Hamilton NJ 08691
USA

**Contact:** Regulatory Affairs

**E-Mail address:** regulatory@globalessence.com

**Company phone:** 732-677-1100

### Emergency telephone number

**Emergency phone:** INFOTRAC 1-800-535-5053

## 2. HAZARD IDENTIFICATION

### Classification

**This product is classified under 29CFR 1910.1200(d) as follows:**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Class and category of danger:**
Flammable Liquid, Hazard Category 3
Acute Toxicity - Oral Category 4
Skin Corrosion / Irritation Category 2
Eye Damage / Irritation Category 2
Sensitization - Skin Category 1
Toxic to Reproduction Category 2
Aspiration Hazard Category 1

**Signal word:** Danger

**Hazard statements:**
Flammable liquid and vapour.
Harmful if swallowed.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of damaging fertility or the unborn child (exposure route).

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**Product:** Juniperberry Oil P&N 10-3011-BB

**Version:** 2

**M factor:** None

**Pictograms:**



**Precautionary statements:**

Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical, ventilating and lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing vapour or dust.
Wash hands and other contacted skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/eye protection/face protection.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Rinse mouth.
Do not induce vomiting.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use carbon dioxide, dry chemical, foam for extinction.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to approved disposal site, in accordance with local regulations.

**Hazards not otherwise classified (HNOC)** None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substances**

**Product identifier:** Juniperberry Oil P&N; CAS: 8002-68-4

# SAFETY DATA SHEET

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**Product:** Juniperberry Oil P&N 10-3011-BB

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**Contains:**

| Name | CAS | % | GHS Classification |
|---|---|---|---|
| alpha-Pinene | 80-56-8 | 20-<50% | Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H302-H304-H315-H317 |
| Myrcene | 123-35-3 | 10-<20% | Flam. Liq. 3-Skin Irrit. 2-Eye Irrit. 2A-Asp. Tox 1;H226-H304-H315-H319 |
| beta-Pinene | 127-91-3 | 1-<5% | Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H304-H315-H317 |
| Terpinen-4-ol | 562-74-3 | 1-<5% | Flam. Liq. 4-Acute Tox. 4-Acute Tox. 4-Skin Irrit. 2-Eye Irrit. 2B-Skin Sens. 1-STOT SE 3;H227-H302-H315-H317-H320-H332-H336 |
| d-Limonene | 5989-27-5 | 1-<5% | Flam. Liq. 3-Skin Irrit. 2-Skin Sens. 1B-Asp. Tox 1;H226-H304-H315-H317 |
| beta-Caryophyllene | 87-44-5 | 1-<5% | Skin Sens. 1B-Asp. Tox 1;H304-H317 |
| p-Mentha-1,4-diene | 99-85-4 | 1-<5% | Flam. Liq. 3-Repr. 2-Asp. Tox 1;H226-H304-H361 |
| p-Cymene | 99-87-6 | 1-<5% | Flam. Liq. 3-Acute Tox. 3-Repr. 2-Asp. Tox 1;H226-H304-H331-H361 |
| p-Mentha-1,3-diene | 99-86-5 | 0.1-<1% | Flam. Liq. 3-Acute Tox. 4-Eye Irrit. 2B-Skin Sens. 1-Asp. Tox 1;H226-H302-H304-H317-H320 |
| alpha-Phellandrene | 99-83-2 | 0.1-<1% | Flam. Liq. 3-Skin Sens. 1-Asp. Tox 1; H226-H304-H317 |
| delta-3-Carene | 13466-78-9 | 0.1-<1% | Flam. Liq. 3-Acute Tox. 4-Skin Irrit. 2-Skin Sens. 1-Asp. Tox 1;H226-H304-H315-H317-H332 |
| beta-Phellandrene | 555-10-2 | 0.1-<1% | Flam. Liq. 3-Skin Sens. 1-Asp. Tox 1; H226-H304-H317 |
| Geraniol | 106-24-1 | 0.1-<1% | Skin Irrit. 2-Eye Dam. 1-Skin Sens. 1; H315-H318-H317 |
| Borneol | 507-70-0 | 0.1-<1% | Flam. Sol. 1-Skin Irrit. 2-Eye Dam. 1; H228-H315-H318 |

The exact percentage concentrations of components are being withheld as a trade secret.

## 4. FIRST-AID MEASURES

### Description of first aid measures

**Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

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

**Skin exposure:** IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

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**In accordance with 29 CFR 1910.1200**

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May cause an allergic skin reaction.

Suspected of damaging fertility or the unborn child (exposure route).

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

Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

Suitable media: Carbon dioxide, Dry chemical, Foam.

**Specific hazards arising from the chemical**

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

**Protective Equipment and Precautions for Firefighters**

In case of insufficient ventilation, wear suitable respiratory equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

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

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

Do not eat, drink or smoke when using this product.

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

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure guidelines**

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This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Other exposure guidelines**

No information available

**Exposure controls**

**Engineering measures**

Showers, eyewash stations, ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face and Skin Protection**

Wear protective gloves/eye protection/face protection, and suitable protective clothing

**Respiratory protection**

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. A NIOSH-approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where air-purifying respirators may not provide adequate protection.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and chemical properties**

| | |
|---|---|
| **Appearance:** | Colorless to Pale Yellow Liquid |
| **Odor:** | Characteristic |
| **Odor threshold:** | Not determined |
| **Melting point / freezing point:** | Not determined |
| **Initial boiling point / range:** | Not determined |
| **Flammability (solid, gas):** | Not determined |
| **Upper/lower flammability or explosive limits:** | Not determined |
| **Flash point:** | 41 °C |
| **Auto-ignition temperature:** | Not determined |
| **Decomposition temperature:** | Not relevant |
| **pH:** | Not determined |
| **Viscosity:** | Not determined |
| **Solubility(ies):** | Not determined |
| **Partition coefficient: n-octanol/water:** | Not determined |

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**In accordance with 29 CFR 1910.1200**

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**Version:** 2

| | |
|---|---|
| **Vapor pressure:** | Not determined |
| **Relative density:** | 0.8500 - 0.8800 |
| **Vapor density:** | Not determined |
| **Particle Characteristics:** | Not determined |

**Other information:** None available

## 10. STABILITY AND REACTIVITY

**Reactivity:**

Presents no significant reactivity hazard, by itself or in contact with water.

**Chemical stability:**

Good stability under normal storage conditions.

**Possibility of hazardous reactions:**

Not expected under normal conditions of use.

**Conditions to avoid:**

Avoid extreme heat.

**Incompatible materials:**

Avoid contact with strong acids, alkalis or oxidising agents.

**Hazardous decomposition products:**

Not expected.

## 11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

| | |
|---|---|
| **Acute Toxicity:** | Acute Toxicity - Oral Category 4 |
| Acute Toxicity Oral | 1270 |
| Acute Toxicity Dermal | >5000 |
| Acute Toxicity Inhalation | Not Available |
| **Skin corrosion/irritation:** | Skin Corrosion / Irritation Category 2 |
| **Serious eye damage/irritation:** | Eye Damage / Irritation Category 2 |
| **Respiratory or skin sensitisation:** | Sensitization - Skin Category 1 |
| **Germ cell mutagenicity:** | Based on available data the classification criteria are not met. |
| **Carcinogenicity:** | Based on available data the classification criteria are not met. |
| **Reproductive toxicity:** | Toxic to Reproduction Category 2 |
| **STOT-single exposure:** | Based on available data the classification criteria are not met. |

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**STOT-repeated exposure:** Based on available data the classification criteria are not met.

**Aspiration hazard:**

**Additional Information** None available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**

Very toxic to aquatic life with long lasting effects.

**Persistence and degradability:** Not available

**Bioaccumulative potential:** Not available

**Mobility in soil:** Not available

**Other adverse effects:** Not available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment**

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

**US DOT:** Not Regulated (If shipped in NON BULK packaging by ground transport) according to 49 CFR 173.150(f)(1). This material can be reclassified as NA1993, Combustible liquid, NOS if it is shipped in bulk.

| | 14.1 UN number: | 14.2 UN Proper Shipping Name: | 14.3 Transport hazard class(es): | Sub Risk: | 14.4. Packing Group: |
|---|---|---|---|---|---|
| **UN Model Regulations** | UN1197 | EXTRACTS, LIQUID | 3 | - | III |
| **US DOT** | Not classified | Not Regulated | - | - | - |
| **US DOT (Bulk)** | UN1197 | EXTRACTS, LIQUID | 3 | - | - |
| **IMDG** | UN1197 | EXTRACTS, LIQUID (alpha-Pinene) MARINE POLLUTANT | 3 | - | III |
| **ADR,RID,ADN** | UN1197 | EXTRACTS, LIQUID | 3 | - | III |
| **IATA TI** | UN1197 | EXTRACTS, LIQUID | 3 | - | III |

US DOT refers to domestic transport by road/rail within the 48 ground states

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**Version:** 2

US DOT (Bulk) refers to domestic bulk transport by road/rail within the 48 ground states.

**Environmental hazards:** This is an environmentally hazardous substance.

**Special precautions for user:** None additional

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

Not applicable

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

None additional

**Additional information**

| | |
|---|---|
| Tariff Code: | 3301.29.5150 |
| FEMA#: | 2604 |
| FDA#: | 182.20 |

## 16. OTHER INFORMATION

Issue date: 11/18/2026
Version: 2 Version Date: 11/18/2026

**Key to revisions:**

2 Classification
3 Composition/information on ingredients
Hazardous Ingredients disclosed in a OSHA GHS Safety Data Sheet with banded concentrations
US Department Of Transport Bulk Packing Group
US Department Of Transport Sub Risks

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.