Safety Data Sheet

Juniper Berry Essential Oil

BIOFORM
NATURE'S FINEST MATERIALS

PRODUCT **Juniper Berry Essential Oil** · BOTANICAL NAME **Juniperus communis L.** · DATE **29.09.2026**

PRODUCER

Bioform Ltd

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DOCUMENT CONTROL

Safety Data Sheet

Version: 1.1
Issued: 29.09.2026
Applies to: Juniper Berry Essential Oil
Scope: Regulation (EC) No 1907/2006, Annex II, as amended by (EU) 2020/878
Status: Approved

Indicative values. The values in this document are typical of the product, not the results of a particular batch. For batch-specific documentation and values (certificate of analysis, GC-MS report), contact us at **sales@bioform.bg** or +359 889 45 05 50.

1 · IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product name	Juniper Berry Essential Oil
Botanical source	Juniperus communis L.
Plant part	Ripe berries (cones)
CAS number	8002-68-4
EC number	283-268-3
REACH registration no.	01-2120110803-69-0000
1.2 Relevant uses	Raw material for fragrance, flavour, cosmetic and aromatherapy formulation. Industrial and professional use. Uses advised against: none identified other than those not listed.
1.3 Supplier	Bioform Ltd Str. Oreshaka 5, Village Tazha, 6160 Pavel Banya, Stara Zagora, Bulgaria +359 889 45 05 50 · sales@bioform.bg
1.4 Emergency telephone	+359 2 9154 233 National Toxicology Center Bulgaria, Hospital for Active Medical Treatment and Emergency Medicine "N. I. Pirogov" · poison_centre@mail.orbitel.bg · www.pirogov.bg · 24/7

2 · HAZARDS IDENTIFICATION

2.1 Classification (CLP)	Flam. Liq. 3 H226 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Skin Sens. 1 H317 Asp. Tox. 1 H304 Aquatic Chronic 2 H411 [1]
2.2 Pictograms	 GHS02 · Flame  GHS07 · Exclamation mark  GHS08 · Health hazard  GHS09 · Environment
Signal word	Danger

Hazard statements	**H226** Flammable liquid and vapour. **H315** Causes skin irritation. **H319** Causes serious eye irritation. **H317** May cause an allergic skin reaction. **H304** May be fatal if swallowed and enters airways. **H411** Toxic to aquatic life with long lasting effects.
Precautionary statements	**P273** Avoid release to the environment. **P280** Wear protective gloves/protective clothing/eye protection/face protection. **P302+P352** IF ON SKIN: Wash with plenty of 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. **P301+P310** IF SWALLOWED: Immediately call a POISON CENTER/doctor. **P501** Dispose of contents/container in accordance with local and national regulations.
2.3 Other hazards	Not considered PBT or vPvB. Contains natural constituents that may cause allergic reactions in sensitised people.

3 · COMPOSITION / INFORMATION ON INGREDIENTS

Substance type	Natural complex substance (UVCB) obtained from the plant material named in section 1.
Identity	Juniper Berry Essential Oil — Juniperus communis L., CAS 8002-68-4

Typical content for this compound [2].

CONSTITUENT	CAS	EC	CONTENT %	CLASSIFICATION (CLP)
α-Pinene	80-56-8	201-291-9	25–45	Flam. Liq. 3 H226; Acute Tox. 4 (Oral) H302; Asp. Tox. 1 H304; Skin Irrit. 2 H315; Skin Sens. 1B H317; Aquatic Acute 1 H400; Aquatic Chronic 1 H410
Myrcene	123-35-3	204-622-5	3–22	Flam. Liq. 3 H226; Asp. Tox. 1 H304; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Skin Sens. 1B H317; Aquatic Acute 1 H400; Aquatic Chronic 2 H411
Sabinene	3387-41-5	222-212-4	4–20	Acute Tox. 4 (Oral) H302
β-Pinene	127-91-3	204-872-5	1–12	Flam. Liq. 3 H226; Asp. Tox. 1 H304; Skin Irrit. 2 H315; Skin Sens. 1 H317
Limonene	5989-27-5	227-813-5	4.4–7.1	Flam. Liq. 3 H226; Asp. Tox. 1 H304; Skin Irrit. 2 H315; Skin Sens. 1B H317; Aquatic Acute 1 H400; Aquatic Chronic 3 H412
β-Caryophyllene	87-44-5	201-746-1	4.2–6.0	Asp. Tox. 1 H304; Skin Sens. 1B H317
Terpinen-4-ol	562-74-3	209-235-5	2.6–3.6	Acute Tox. 4 (Inhalation) H332; Acute Tox. 4 (Oral) H302; STOT SE 3 H336; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Skin Sens. 1 H317
p-Cymene	99-87-6	202-796-7	2.2–4.2	Flam. Liq. 3 H226; Acute Tox. 3 (Inhalation) H331; Asp. Tox. 1 H304; Aquatic Chronic 2 H411
γ-Terpinene	99-85-4	202-794-6	2.2–3.0	Flam. Liq. 3 H226; Repr. 2 H361; Aquatic Chronic 2 H411

4 · FIRST-AID MEASURES

Inhalation	Move to fresh air. If breathing is difficult or symptoms persist, get medical advice.
Skin contact	Remove contaminated clothing. Wash skin with plenty of soap and water. If irritation or rash occurs, get medical advice.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, get medical advice.
Ingestion	Rinse mouth. Do NOT induce vomiting. Get medical advice immediately and show this sheet or the label.
Symptoms and effects	Skin and eye irritation; allergic skin reaction in sensitised people. Aspiration into the lungs after swallowing can cause chemical pneumonitis.
Medical attention	Treat symptomatically.

5 · FIRE-FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide, dry chemical powder, alcohol-resistant foam, water spray.

Unsuitable extinguishing media	Direct water jet.
Special hazards	Combustion produces carbon monoxide, carbon dioxide and smoke. Vapours may form flammable mixtures with air above the flash point.
Advice for firefighters	Wear self-contained breathing apparatus and full protective clothing. Cool closed containers exposed to fire with water spray.

6 · ACCIDENTAL RELEASE MEASURES

Personal precautions	Remove ignition sources. Ensure adequate ventilation. Avoid contact with skin and eyes; wear the protective equipment in section 8.
Environmental precautions	Prevent entry into drains, surface water and soil.
Clean-up	Absorb with inert material (sand, earth, vermiculite). Collect in closed, labelled containers for disposal according to section 13.

7 · HANDLING AND STORAGE

Safe handling	Handle in a well-ventilated area. Avoid contact with skin and eyes. Keep away from heat, sparks and open flames. Do not eat, drink or smoke when using this product. Wash hands after handling.
Storage	Store in tightly closed, full containers of aluminium, stainless steel or amber glass, in a cool, dry, dark place away from heat and ignition sources. Nitrogen blanketing of part-filled containers is recommended.
Specific end uses	See section 1.2.

8 · EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits	No occupational exposure limits established for this product.
Engineering controls	Local exhaust or general ventilation.
Eye protection	Safety glasses with side shields (EN 166).
Hand protection	Nitrile rubber gloves (EN ISO 374).
Respiratory protection	Not normally required with adequate ventilation. In case of insufficient ventilation, use a respirator with an organic vapour filter (type A).
Skin and body protection	Protective work clothing.

9 · PHYSICAL AND CHEMICAL PROPERTIES

Typical values for this compound [1].

Physical state / appearance	Clear, colourless to slightly yellow-green mobile liquid
Odour	Fresh, clean, woody-balsamic with crisp, slightly peppery top notes
Flash point	38.5 °C (closed cup)
Relative density (20 °C)	0.858 (20 °C)
Refractive index (20 °C)	No data available
Optical rotation (20 °C)	No data available
Boiling point / range	171.1 °C at 101.3 kPa
Solubility	Insoluble in water; soluble in ethanol and oils
pH	No data available

10 · STABILITY AND REACTIVITY

Reactivity	No hazardous reactions known under normal conditions of use.
Chemical stability	Stable under the recommended storage conditions.
Conditions to avoid	Heat, direct sunlight, sparks, open flames, prolonged contact with air.
Incompatible materials	Strong oxidising agents, strong acids and bases.

Hazardous decomposition products	Carbon monoxide and carbon dioxide on combustion.

11 · TOXICOLOGICAL INFORMATION

No toxicological test data on the product itself are given here. The classification in section 2 is the classification of this substance as documented in the cited sources (for REACH-registered substances, the registrant's classification in the registration dossier).

12 · ECOLOGICAL INFORMATION

No ecotoxicological test data on the product itself are given here. The environmental classification, where shown in section 2, is taken from the cited sources. Do not allow undiluted product to reach ground water, water courses or sewage systems.

13 · DISPOSAL CONSIDERATIONS

Dispose of product and contaminated packaging through a licensed waste contractor in accordance with local and national regulations. Do not empty into drains.

14 · TRANSPORT INFORMATION

UN number	UN1197
Proper shipping name	EXTRACTS, LIQUID, for flavour or aroma (JUNIPER OIL)
Transport hazard class	3
Packing group	III
Environmental hazards	Yes — marine pollutant
Modes	ADR/RID, IMDG, IATA

15 · REGULATORY INFORMATION

Regulation (EC) No 1907/2006 (REACH); Regulation (EC) No 1272/2008 (CLP); Regulation (EC) No 1223/2009 (cosmetic products) where relevant. Users formulating fragrance products should also consult the current IFRA Standards.

16 · OTHER INFORMATION

This safety data sheet was prepared from the composition of the product as supplied. The information is given in good faith and is correct to the best of our knowledge at the date of issue. It does not constitute a guarantee of specific properties.

The REACH registration covers juniper oil distilled from berries and branches; composition data refer to juniper berry oil.

Supersedes revision 1.0.

SOURCES

1. ECHA, REACH registration dossier 01-2120110803-69-0000 (Essential oil of Juniperus communis L. (Cupressaceae) obtained from berries and branches by steam distillation.), lead registrant, last updated 2021-03-11: classification and labelling (section 2), physical and chemical properties (section 4) — https://chem.echa.europa.eu/html-pages-prod/c44f6608-501c-41b6-aba7-886b755a0023/index.html (accessed 2026-09-28)
2. EFSA FEEDAP Panel (2023). Safety and efficacy of feed additives consisting of an essential oil and tincture from the berries of Juniperus communis L. (juniper oil and juniper tincture) for use in all animal species. EFSA Journal 21:e07977 — https://doi.org/10.2903/j.efsa.2023.7977 (accessed 2026-09-28)

Биоформ

Signature and stamp

Mariya Staykova

Authorised representative

FOR AND ON BEHALF OF BIOFORM LTD

Place: 6160 Tazha, Bulgaria

Date: 29.09.2026