

Safety Data Sheet

In accordance with REACH Regulation EC No.1907/2006

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Juniper Berry Essential Oil
CAS number: 84603-69-0; 8002-68-4
EINECS number: 283-268-3
Other names: Juniper Berry Oil
INCI name: Juniperus Communis Fruit Oil

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

Industrial use: Washing and cleaning products.
Professional use: Washing and cleaning products; polishes and wax blends; cosmetics
Consumer use: Washing and cleaning products; polishes and wax blends; air care products; biocides; tobacco products; cosmetics.

1.3. Details of the supplier of the safety data sheet

Company name: Bath and Body Base Ltd
2A Laurel Way
Bishop Auckland
Co. Durham
DL14 7NF
Tel: 07493 064263
Email: technical@bathandbodybase.com

1.4. Emergency telephone number

Emergency tel: 07493 064263

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]: Flam. Liq. 3 – H226
Asp. Tox. 1 – H304
Skin Irrit. 2 – H315
Skin Sens. 1 – H317
Eye Irrit. 2 – H319
Aquatic Chronic 2 – H411

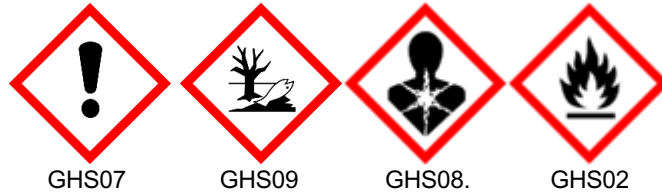
2.2. Label elements

Label elements labelling according to Regulation (EC) No 1272/2008 [CLP]

Hazard statements: H226: Flammable liquid and vapour
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
H411: Toxic to aquatic life with long lasting effects

Signal words: DANGER

Hazard pictograms:



Precautionary statements (prevention):

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/vapours/spray.
 P264: Wash hands thoroughly after handling.
 P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P273: Avoid release to the environment

Precautionary statements (response):

P370+P378: In case of fire: Use measures outlined in section 5 to extinguish. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor
 P331: Do NOT induce vomiting.
 P302+P352: IF ON SKIN: wash with plenty of water.
 P333+P317: IF SKIN irritation or rash occurs: Get medical help
 P362+P364: Take off contaminated clothing and wash it before reuse.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
 P337+P317: IF EYE irritation persists: Get medical help.
 P391: Collect spillage

Precautionary statements (storage):

P403+P235: Store in a well-ventilated place. Keep cool
 P405: Store locked up

Precautionary statements (disposal):

P501: Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

2.3. Other hazards

Other hazards:

All essential oils are highly concentrated so have strong aromas and colour that can stain. Juniper oil contains over 11% Hydrocarbons (85%). Emergency treatment for those who accidentally swallow oils in this category is to seek medical attention immediately and transport sitting in a half-upright position.
 Juniper oil is not identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100
 Juniper oil does not meet the criteria for vPvB and PBT according to Regulation (EC) No 1907/2006, Annex XIII

Section 3: Composition/information on ingredients

3.1. Chemical identity of the substance

Chemical identity: Juniperus Communis, ext.
Common name(s), synonym(s): Juniper Berry Oil

3.2. Substances

**Mixture/Natural Complex
Substance (NCS):**
**Chemical Identity of
Ingredients:**

This is a natural complex substance (NCS). The substance has a natural variability in its composition. It is obtained by steam distillation of the ripe berries of *Juniperus communis*

50 to 70% α -Pinene – CAS 80-56-8, EC 201-291-9: Flam. Liq. 3, H226; Acute Tox 4, H302; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

20 to 35% Limonene – CAS 5989-27-5, EC 227-813-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

1.5 to 7% Cedrol – CAS 77-53-2, EC 201-035-6: Aquatic Chronic 2, H411

2 to 5% β -Myrcene – CAS 123-35-3, EC 204-622-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 2, H411

1 to 3% β -Pinene – CAS 127-91-3, EC 204-872-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic, 1 H410

tr to 2% β -Funebrene – CAS 79120-98-2: not registered

tr to 1.5% Terpinolene – CAS 586-62-9, EC 209-578-0: Asp. Tox. 1, H304; Skin Sens. 1B, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

tr to 1.5% α -Terpinene – CAS 99-85-4, EC 202-794-6: Flam. Liq. 3, H226; Repr. 2, H361; Aquatic Chronic 2, H411

tr to 1.5% Germacrene D – CAS 37839-63-7, EC 817-191-9: Asp. Tox. 1, H304

tr to 1.5% Sabinene – CAS 3387-41-5, EC 222-212-4: Acute Tox. 4, H302

tr to 1% p-Cymene – CAS 99-87-6, EC 202-796-7: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 (Lung, Oral); Repr. 2, H361 (Treatment related); Aquatic Chronic 2, H411

Section 4: First aid measures
4.1. Description of first aid measures

General advice:	Do not leave affected person unattended. Remove victim out of danger area. Remove contaminated clothing immediately.
Skin contact:	Wash immediately with plenty of water and soap.
Eye contact:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
Swallowed:	Rinse mouth. Do NOT induce vomiting.
Inhalation:	Remove victim to fresh air.
Self-protection of First Aider:	Use personal protective equipment as described in Section 8 if substance is present.

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

Most important symptoms and effects:	Observe risk of aspiration if vomiting occurs.
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4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment: No specific first aid measures noted.

Section 5: Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Carbon dioxide, dry chemical powder or appropriate/alcohol-free foam.

Unsuitable extinguishing media: Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: May produce fumes of carbon monoxide and carbon dioxide, heavy smoke and soot.

5.3. Advice for fire-fighters

Advice for fire-fighters: Move undamaged containers from immediate hazard area if it can be done safely; cool containers near fire with water. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment. Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.

5.4. Emergency action code

Emergency action code: 3[Y] (Foam + BA & Fire Kit)

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

For non-emergency personnel: Use personal protective equipment. Avoid contact with skin, eye and clothing. Avoid formation of, or breathing in of, vapour / aerosol / mist. Ensure adequate ventilation. Remove all sources of ignition. Give a warning to persons in the hazard area.

For emergency responders: As per non-emergency personnel. Wear an appropriate NIOSH/MSHA approved respirator if mist, vapour or aerosol is generated.

6.2. Environmental precautions

Environmental precautions: Do not allow material to be released to the environment (soil / surface- or ground water / drains / sewers). Cover drains. Prevent spread over a wide area (eg. By containment or oil barriers). Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean up spillage promptly. Remove ignition sources and provide adequate ventilation. Gross spillages should be contained by use of liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and disposed of according to the local regulations. Pick up and arrange disposal without creating mist / aerosol / excessive vapours. Keep in upright, suitable, closed containers for disposal.

6.4. Reference to other sections

Reference to other sections: Take hazard and precautionary phrases (Section 2) and Sections 7, 8 and 13 into account.

Section 7: Handling and storage

7.1. Precautions for safe handling

Protective measures: Avoid formation of mist and aerosols. Provide appropriate exhaust ventilation at places where mist/aerosols/excessive vapours are formed. Measures for preventive fire protection: keep away from ignition sources; take precautionary measures against static discharges; do not smoke.

Advice on general occupational hygiene: Wear appropriate protective clothing. Do not eat, drink or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a cool, dry and well-ventilated place.

Packaging: Refer to Section 16 for safe packaging information.

Incompatibilities: Refer to Section 10.

7.3. Specific end use(s)

Recommendations: None specified (as per REACH dossier).

Section 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits: Not available.

Additional exposure limits under the conditions of use: Not available.

DNEL/DMEL and PNEC-Values: Not available.

8.2. Exposure controls



Engineering controls: Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation according to the conditions of use to keep airborne concentrations low. Handle and store in accordance with good industrial hygiene and safety practices.

PPE – General:	It is recommended that facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower. Use personal protective equipment depending on concentration and amount of hazardous substance according to Directive 89/686/EEC. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, using the bathroom and/or smoking and at the end of work. When using, do not eat, drink or smoke. Routinely wash work clothing and protective equipment to remove contaminants.
PPE – Eye/face:	Use protection goggles according to EN 166.
PPE – Skin:	<p>Hand: Chemical-resistant, impervious gloves complying with an approved standard (EN374) should be worn if handling substance. The quality of the protective gloves resistant to chemicals and the breakthrough time must be chosen as a function of the specific working place concentration and quantity of hazardous substances and length of time of exposure.</p> <p>Other: Wear protective clothing according to that recommended by the risk assessment for the product's use.</p>
PPE – Respiratory:	If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Environmental exposure control:	Avoid discharge into the environment. Refer to additional information provided in Sections 6 and 7 regarding safe handling and storage to prevent exposure to individuals and/or to the environment. Refer to official regulations (local/government).

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Clear mobile liquid
Colour:	Colourless to pale yellow
Odour:	Fresh, warm, sweet and woody, pine needle-like
Relative density (specific gravity):	@ 20°C: 0.8350 to 0.8850
Refractive index:	@ 20°C: 1.4675 to 1.4825
Optical rotation:	@ 20°C: +40° to +48°
Solubility:	@ 25°C: 90% saturated solution provides an estimated global solubility, based on DOC, of ca 49 mg/L for a 1 g/L loading rate
Boiling point:	@101 325 Pa: 171.1°C
Vapour pressure:	@ 25°C: No study conducted on the oil itself. Major components range between 279 and 633 Pa
Freezing point:	@101 325 Pa: < -20°C
Flash point:	38.5°C (Pensky Martens Closed Cup method)
Flammability:	The study does not need to be conducted because the substance is a liquid that is known to be stable in contact with air and water at room temperature for prolonged periods of time (days) and it does not contain metals or metalloids; the classification procedure does not need to be applied.

Explosiveness:	The study does not need to be conducted because there are no chemical groups present in the molecule which are associated with explosive properties.
Auto-ignition temperature:	@101 325 Pa: 240°C
Kinematic viscosity:	No data available (REACH dossier).
Partition coefficient n-octanol/water (log value):	No study conducted on the oil itself. LogKow for four major components (alpha-Pinene, beta-Myrcene, Limonene and Sabinene) are all >4 (from 4.33 to 4.83)
Relative vapour density:	No data available (REACH dossier).

9.2. Other information

Information with regard to physical hazard classes:	Categories not relevant for the safe use of this substance.
Other safety characteristics:	Categories not relevant for the safe use of this substance.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity:	Avoiding of strong oxidising agents, strong reducing agents, acids, bases, acid anhydride and alkali metals.
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10.2. Chemical stability

Chemical stability:	Product is stable at room temperature.
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10.3. Possibility of hazardous reactions

Hazardous reactions:	No dangerous reactions expected if used according to specifications.
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10.4. Conditions to avoid

Conditions to avoid:	Temperatures more than room temperature will benefit the transfer from liquid to vapour phase and formation of explosive atmospheres. Storing the product in open containers will benefit the formation of peroxides and derogate the quality.
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10.5. Incompatible materials

Materials to avoid:	No data available
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10.6. Hazardous decomposition product

Haz. decomp. products:	No dangerous decomposition products known.
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Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity, oral:	GHS criteria not met. Sherman-Wistar rat – 14d LD50 > 5000 mg/kg bw
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Acute toxicity, inhalation:	This information is not available and is not required for this tonnage band (REACH dossier)
Acute toxicity, dermal:	This information is not available and is not required for this tonnage band (REACH dossier)
Eye irritation:	Eye Irritant (Cat. 2) – based on properties of constituents of mixture (classification of mixtures - ECHA Guidance R.7a (2017))
Skin irritation:	Skin Irritant (Cat. 2) – based on properties of constituents of mixture (classification of mixtures - ECHA Guidance R.7a (2017))
Skin sensitivity:	Skin sensitising (Cat. 1) – based on properties of constituents of mixture (classification of mixtures - ECHA Guidance R.7a (2017))
Mutagenicity/carcinogenicity:	GHS criteria not met. Considered not mutagenic (Salmonella typhimurium - reverse gene mutation assay)
Fertility/reproduction:	No studies available (REACH dossier).
STOT-single exposure:	Classification criteria for oral exposure are not met since no reversible or irreversible adverse health effects were observed (either immediate or delayed). No information was available for dermal or inhalation; not required for substances at the REACH Annex VII tonnage level
STOT-repeated exposure:	No studies available (REACH dossier)
Aspiration hazard:	Classified Asp. Tox. 1 – may cause lung damage if liquid enters airways (due to low viscosity of hydrocarbon content). According to the Regulation (EC) No. 1272/2008, Substances in Category 1 for aspiration hazard include but are not limited to certain hydrocarbons, turpentine and pine oil. Based on its composition (> 10% of aspiration toxicants, i.e. pinene alpha, myrcene beta), Juniper oil should be classified for aspiration hazard

11.2. Information on other hazard classes which relates to endocrine disrupting properties

Other hazards:	No information on other hazard classes specified.
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Section 12: Ecological information

12.1. Toxicity

Fish:	96-h EC50/LC50 freshwater fish (not specified) = 2.8mg/L (iSafeRat mixture toxicity calculation)
Algae:	72-h EC50/LC50 = 4.4mg/L (iSafeRat mixture toxicity calculation)
Aquatic invertebrates:	48-h EC50/LC50 Daphnia sp. = 2.5mg/L (iSafeRat mixture toxicity calculation)
Microorganisms:	No studies available (REACH dossier).
Terrestrial arthropods:	No studies available (REACH dossier).
	Classified Aquatic Chronic 2, H411 - Toxic to aquatic life with long lasting effects

12.2. Persistence and degradability

Persistence and degradability:	Considered readily biodegradable (WoE approach based on properties of main components)
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12.3. Bioaccumulative potential

Bioaccumulative potential: No studies conducted on juniper oil. As its LogKow >4 (based on main constituents alpha-pinene, limonene and beta-myrcene), however, it should be considered to be potentially bioaccumulative in a PBT context.

12.4. Mobility in soil

Mobility: No studies available (REACH dossier).

12.5. Results of PBT and vPvB assessment

PBT identification: The substance is not PBT and vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties: Juniper Oil is not on the ED-list (<https://edlists.org/the-ed-lists>) of endocrine disruptors meaning that it is not a substance identified as an endocrine disruptor at EU level (List I), a substance under evaluation for endocrine disruption under an EU legislation (List II) nor a substance considered, by the evaluating National Authority, to have endocrine disrupting properties (List III).

12.7. Other adverse effects

Other adverse effects: No further information available (REACH dossier).

Section 13: Disposal considerations

13.1. Waste treatment methods

Product/packaging disposal: If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

Waste treatment – relevant information: Hazardous waste according to waste regulation. State and local hazardous waste regulations should be consulted to ensure complete and accurate classification and appropriate treatment.

Sewage disposal – relevant information: Waste should not be disposed of by release to sewers.

13.2. Special precautions for landfill and incineration

Special precautions for landfill and incineration: Waste packaging is suitable for incineration – take care to ensure only traces of product remain in packaging prior to incineration.

Section 14: Transport information

UN number: 1197
UN proper shipping name: EXTRACTS, LIQUID for flavour or aroma
Transport hazard class(es): 3
Packaging group: III

Transport labels:

Environmental hazards:

See Section 2 - IMDG - Marine pollutant

Special precautions for user:

 Dangerous Goods Note
 Tunnel Restriction code: 3 (E)

Maritime transport in bulk according to IMO instruments:

 UN1197 - EXTRACTS, LIQUID for flavour or aroma Class 3 (Flammable liquids); packing group III
 Marine pollutant

Section 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Specific regulations:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No 716)

15.2. Chemical Safety Assessment
Chemical safety assessment:

Not relevant for this substance.

Section 16: Other information
16.1. Other information
Packaging:

Type	Suitability
Glass	Yes
Steel	Yes
Aluminium	Yes
F/HDPE	Yes
Stainless steel drum	Yes

Shelf life:

36 months when stored within advised conditions, re-test every 12 months thereafter for a possible further 24 months.

Other information:

* Indicates text in the SDS which has changed since the last revision.

Legal disclaimer:

This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product.

Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all appropriate local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing.

Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary.

All health and safety information contained in this document should be provided to your employees or customers.