

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:	Frankincense Serrata Essential Oil
CAS number:	97952-72-2
EINECS number:	308-366-6
Other names:	Salai Ext., Boswellia Serrata Ext., Indian Olibanum Oil
INCI name:	Boswellia Serrata 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; 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
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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 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410
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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. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.
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Signal words:

DANGER

Hazard pictograms:

**Precautionary statements
(prevention):**

P210: Keep away from heat, hot surface, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P240: Ground/bond container and receiving equipment.
 P241: Use explosion-proof 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.
 P273: Avoid release to the environment.
 P280: Wear protective gloves/clothing/eye-protection/face protection.

**Precautionary statements
(response):**

P303+P361+P353: IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water (or shower).
 P370+P378: In case of FIRE: use carbon dioxide, dry sand, dry chemical or alcohol-resistant foam to extinguish.
 P301+P316: IF SWALLOWED: Get emergency medical help immediately.
 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.
 P391: Collect spillage.

**Precautionary statements
(storage):**

P403+P235: Store in a well-ventilated place. Keep cool.
 P404: Store in a closed container.
 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.

Boswellia Serrata Oil contains over 11% Hydrocarbons. 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.

Substance is not identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

Substance 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:	Salai, Ext.
Common name(s), synonym(s):	Boswellia Serrata Oil, Indian Olibanum Oil

3.2. Substances

Mixture/Natural Complex Substance (NCS): This is a Natural Complex Substance (NCS). The substance has a natural variability in its composition. It is obtained by steam distillation of the resin extracted from the tree Boswellia Serrata wild harvested in India.

Chemical Identity of ingredients: **Classification according to COMMISSION REGULATION (EU) 2017/542 of 22 March 2017 amending Regulation (EC) No 1272/2008**

Major components of this natural complex substance are:

60 to 75% **α -Thujene** – CAS 2867-05-2, EC 220-686-7: Flam. Liq. 3, H226; Skin Sens. 1, H317

6 to 13% **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, H400; Aquatic Chronic 1, H410

4 to 10% **Sabinene** – CAS 3387-41-5, EC 222-212-4: Acute Tox. 4, H302

1 to 7% **δ -3-Carene** – CAS 13466-78-9, EC 236-719-3: Flam. Liq. 3, H226; Asp. Tox. 1, H304; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412

1 to 5% **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 to 5% **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

tr to 8% **α -Phellandrene** – CAS 99-83-2, EC 202-792-5: Flam. Liq. 3, H226; Asp. Tox. 1, H304

tr to 2.5% **Methyl Chavicol** – CAS 140-67-0, EC 205-427-8: Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Irrit. 2, H319; Muta. 2, H341; Carc. 2, H351

tr to 1% **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 1% **β -Myrcene** – CAS 123-35-3, EC 204-622-5: Flam. Liquid 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

tr to 1% **γ -Terpinene** – CAS 99-85-4, EC 202-794-6: Flam. Liq. 3, H226; Repr. 2, H361; Aquatic Chronic 2, H411

tr to 0.12% **Methyl Eugenol** – CAS 93-15-2, EC 202-223-0: Acute Tox. 4, H302; Muta. 2, H341; Carc. 2, H351; Aquatic Acute 2, H401

Section 4: First aid measures

4.1. Description of first aid measures

General advice:	As in all cases of potential poisoning, Obtain medical advice immediately.
Skin contact:	Remove contaminated clothing. Rinse affected area with plenty of water. Contact a physician if symptoms persist.
Eye contact:	Rinse opened eye for several minutes with plenty of vegetable oil or water. If there is any redness, pain or visual impairment, consult an ophthalmologist. For contact lens wearers, flush eyes immediately. If lenses do not fall out during rinsing, remove them afterwards; do not reuse.
Swallowed:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. If vomiting occurs, keep head down to prevent the passage of vomit into the lungs. Take a copy of the label and/or SDS with the victim to the health professional.
Inhalation:	Remove affected person to fresh air. In case of breathing difficulty, seek medical advice.
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:	No specific data available.
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4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment:	No specific data available.
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Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Water spray, 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, smoke and soot.
	Containers close to the fire should be cooled with a water spray.

5.3. Advice for fire-fighters

Advice for fire-fighters:	Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.
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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 saturated vapour/aerosol/mist formation. Avoid breathing vapour/aerosol/mist. Ensure adequate ventilation.

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/surface - or ground water/drains/sewers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local/government regulations. Pick up and arrange disposal without creating 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: Appropriate protective clothing should be worn when handling (see Section 8). Avoid formation of mist and aerosols. Provide appropriate exhaust ventilation at places where mist/aerosols/excessive vapours are formed. Normal measures for preventive fire protection - avoid naked flames or other potential sources of ignition. Avoid exposing to high temperature during processing. Do not ingest or apply to the skin as such.

Advice on general occupational hygiene: Do not eat, drink and 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 (preferably full) container tightly closed in a dry and well-ventilated place away from heat sources and protected from extremes of temperature.

Packaging: Refer to Section 16 for safe packaging information.

Incompatibilities: Refer to Section 10.

7.3. Specific end use(s)

Recommendations: Not available at this time.

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:

It is recommended that facilities storing or utilising this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Handle and store in accordance with good industrial hygiene and safety practices. Wear appropriate PPE according to Directive 89/686/EEC.

PPE – General:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, using the bathroom and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

PPE – Eye/face:

Use protection goggles according to EN166.

PPE – Skin:

Hand:

Chemical-resistant gloves classified under Standard EN374 should be worn if a risk assessment indicates skin contact is possible. Preferred glove barrier materials: Neoprene and Nitrile. 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.

Other:

Wear protective clothing according to that recommended by the risk assessment for the product's use to limit the outer contamination of personal clothing. Contaminated clothing should be washed thoroughly before reuse.

PPE – Respiratory:

Where ventilation (LEV) is inadequate, respiratory protection may be required if excessive airborne contamination occurs.

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:	Balsamic, spicy, woody, warm aroma
Relative density:	@ 20°C: 0.830 to 0.890
Refractive index:	@ 20°C: 1.440 to 1.485
Optical rotation:	@ 20°C: -15° to +35°
Solubility:	Insoluble in water; soluble in alcohol
Boiling point:	No data available.
Vapour pressure:	No data available.
Freezing point:	No data available.
Flash point:	78°C (Supplier value - Pensky Martens Closed Cup method)
Flammability:	The study does not need to be conducted because the substance is known to be stable in contact with air at room temperature for prolonged periods of time (days) and it does not contain metals or metalloids hence 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:	No data available.
Kinematic viscosity:	No data available.
Partition coefficient n-octanol/water (log value):	No data available.
Relative vapour density:	No data available.

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:	No reaction known with water.
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10.2. Chemical stability

Chemical stability:	Good stability at standard temperature.
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10.3. Possibility of hazardous reactions

Hazardous reactions:	No hazardous reactions known.
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10.4. Conditions to avoid

Conditions to avoid: Avoid temperatures above or at least 5°C below flash point for any flammable liquids. Do not heat closed containers. Avoid contact with oxidizing agents.

10.5. Incompatible materials

Materials to avoid: Not known. Avoid contact with strong acids, alkali or oxidizing agents.

10.6. Hazardous decomposition product

Haz. decomp. products: Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

Section 11: Toxicological information
11.1. Information on toxicological effects

Acute toxicity, oral: Not classified (no study available for *B. serrata* – read across result for Black Pepper oil LD50 rat >5000mg/kg bw).

Acute toxicity, inhalation: Not classified.

Acute toxicity, dermal: Not classified (no study available for *B. serrata* – read across result for Black Pepper oil LD50 rat >2000mg/kg bw).

Eye irritation: Not classified (no study available for *B. serrata* – read across result for *B. carterii* = not irritating to eyes - OECD Guideline 492).

Skin irritation: Classified as Skin Irritant (Cat. 2) (no study available for *B. serrata* – classification based on >10% of its constituents classified as Skin Irrit. 2).

Skin sensitivity: Classified as Skin Sensitiser (Cat. 1) (no study available for *B. serrata* – classification based on presence of α -pinene, limonene, β -myrcene and p-cymene at levels potentially above 1%).

Mutagenicity/carcinogenicity: Not classified – data lacking (ECHA).

Fertility/reproduction: Not classified – data lacking (ECHA).

STOT-single exposure: Not classified – data lacking (ECHA).

STOT-repeated exposure: Not classified – data lacking (ECHA).

Aspiration hazard: Classified Asp. Tox. 1 – may cause lung damage if liquid enters airways (due to low viscosity of hydrocarbon content).

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

Other hazards: No information on other hazard classes specified.

Section 12: Ecological information
12.1. Toxicity

Classified Aquatic Acute 1 (H400) and Aquatic Chronic 1 (H410)

Fish: No studies available.

Algae: No studies available.

Aquatic invertebrates: No studies available.

Microorganisms: No studies available.

Terrestrial arthropods: No studies available.

12.2. Persistence and degradability

Persistence and degradability: No further relevant information available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No further relevant information available.

12.4. Mobility in soil

Mobility: No further relevant information available.

12.5. Results of PBT and vPvB assessment

PBT identification: No further relevant information available.

12.6. Endocrine disrupting properties

Endocrine disrupting properties: Boswellia Serrata 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 relevant information available.

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: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

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 is suitable for 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 (D/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: No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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.