

# MATERIAL SAFETY DATA SHEET

## 1) IDENTIFICATION OF SUBSTANCE / PREPARATION & COMPANY

PRODUCT NAME: Benzoin Essential Oil

PRODUCT CODE: eobenzoin

SUPPLIER: Naturallythinking, 7 High Street, Carshalton, Surrey, SM5 3AP

Emergency Tel No: 020 8773 3803 Emergency Contact: Mr Danny Stanzl

## 2) COMPOSITION / INFORMATION ON INGREDIENTS

DEFINITION/BOTANICAL ORIGIN: Volatile oil obtained by steam distillation of the flowering tops & leaves of *Styrax Benzoin* (Fam. Labiatae).

H. No: 3301.29	CAS No: 84775-71-3	Status: natural
CoE No: 308	FEMA: 2119	Additives: none
FDA: 182.20	IFRA: not restricted	RTECS:
RIFM: monograph	EINECS: 283-900-8	FCCIV:

## 3) HAZARDS IDENTIFICATION

Xn Harmful

## 4) FIRST AID MEASURES

### Inhalation

Remove from exposure site to fresh air. Keep at rest. Obtain medical attention

### Eye Contact

Rinse immediately with plenty of water for at least 15 mins. Contact a doctor if symptoms persist.

### Skin Contact

Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists seek medical advice.

### Ingestion

Rinse mouth out with water. Seek medical advice immediately.

### Other

When assessing action take Risk & Safety Phrases into account (section 15)

## 5) FIRE FIGHTING MEASURES

### Extinguishing Media

Use CO2 Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames.

Do not use direct water jet on burning material.

### Special Measures

Avoid vapour inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.

### Extinguishing Procedures

Closed containers may build up pressure when exposed to heat and should be cooled with water spray

## 6) ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Avoid inhalation & direct contact with skin and eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

## **Environment Precautions**

Keep away from drains, soils, surfaces and groundwaters

## **Cleaning Up Methods for Spillages**

Remove all potential ignition sources. Contain spilled material. Cover with an inert or non-combustible inorganic absorbent material, sweep up and remove to an approved disposal container. Observe state, federal and local disposal regulations.

## **7) HANDLING AND STORAGE**

### **Precautions in Handling**

Apply good manufacturing practice and industrial hygiene practises, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

### **Storage Conditions**

Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources and protected from light. Keep air contact to a minimum.

### **Fire Protection**

Keep away from ignition sources and naked flames. Take precautions to avoid static discharges in working area.

## **8) EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Respiratory Protection**

Avoid breathing product vapour. Apply local ventilation where possible

### **Ventilation**

Ensure good ventilation in working area

### **Hand Protection**

Avoid all skin contact. Use chemically resistant gloves if required

### **Eye Protection**

Use safety glasses

### **Work / Hygiene Practices**

Wash hands with soap & water after handling

## **9) PHYSICAL AND CHEMICAL PROPERTIES**

Colour:	Light Yellow
Appearance:	Mobile Liquid
Odour:	Typical basil, reminiscent of aniseed
Flash Point °C :	75
Specific Gravity Index at 20°C:	0.905 – 0.955
Refractive Index at 20°C:	1.487 – 1.515
Solubility in Vegetable Oils:	Soluble
Solubility in Water:	Insoluble
Typical GC/MS Analysis:	CONTAINS MYRCENE, 1,8-CINEOL, P-CYMENE, OCIMENES, 3-OCTANONE, CAMPHOR, $\beta$ -CAROPHYLLENE, LINALOL, METHYL CHAVICOL, SAFROLE, SESQUITHUJENE, 10-CADINOLS, EUGENOL, GERANIOL, $\alpha$ -TERPINEOL, METHYL CINNAMATE, METHYL EUGENOL, AMONGST OTHERS

## **10) STABILITY AND REACTIVITY**

### **Reactivity**

It presents no significant reactivity hazards by itself or in contact with water. Avoid contact with strong acids, alkali or oxidising agents.

### **Decomposition**

Liable to cause smoke & acid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## 11) TOXICOLOGICAL INFORMATION

High estragole (>10%) containing Basil Oil: acute oral LD50: 1.4/Kg FCT (1973) **11**, 867: D.L.J Opdyke found basil oil to be non-toxic, but methyl chavicol is known heptacarcinogen: see E.C. Miller et al. *Cancer Res.* **43**, 1124 (1983). For genotoxicity of Basil & Tarragon oils see F. Tateo et al: *J Essen Oil Record* 1, 11118 (May-June 1989). (N.B. Basil oils containing high linalool and low estragole contents are the preferred choice of many aromatherapists on reduced toxicity grounds).

## 12) ECOLOGICAL INFORMATION

Biodegradability

Data not available

Precautions

Prevent surface contamination of soil, ground & surface water.

## 13) DISPOSAL CONSIDERATIONS

Avoid disposing to drainage systems and into the environment. Seek expert advice

## 14) TRANSPORT REGULATIONS

Road (ADR/RID): n/a

AIR (IATA): n/a

SEA (IMDG): n/a

CHIP: See section 15

## 15) REGULATORY INFORMATION

**Hazards:** Harmful

**Symbols:** Xn

**Risk Phrases:** R22: Harmful if swallowed

**Safety Phrases:** S46 If swallowed seek medical advice immediately and show the container / label

## 16) OTHER INFORMATION

Cosmetics Directive 7<sup>th</sup> Amendment: Restrictions may apply. A source of Eugenol, Limonene and Linalool, listed as sensitisers. Check maximum usage levels for skin care products.

### Packaging

Type	Suitability
Glass	Yes
Lacquer lined steel / tin	Yes
Aluminium	Yes
HPPE	No
F/HPDE	Yes
Other Plastic	No

**Shelf Life**

When stored within advised conditions, re-test after 12 months then at 3 monthly intervals up to a maximum life of 36 months.

**Q.C. Requirements**

In line with general product specification. Always satisfy suitability for specific application

The data provided in this material safety data sheet is meant to represent typical data / analysis for this product and is correct to the best of our knowledge. The data was obtained from current and reliable sources, but is supplied without warranty, expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for the use of this product, and to assume liability for loss, injury, damage or expense arising from improper use of this product. The information provided does not constitute a contract to supply to any specification, or for any given application, and buyers should seek to verify their requirements and product use.