

## MATERIAL SAFETY DATA SHEET

### PLANTAIN TINCTURE

#### 1. Identification of substance/preparation & company.

Product name: *Plantago lanceolata*

Supplier:

G. Baldwin & Co.

173 Walworth Road,

LONDON, ENGLAND. SE17 1RW.

Telephone: +44 (0) 207 703 5550 Fax: +44 (0) 207 252 6264

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(office hours only)

#### 2. Composition / Information on Ingredients

Definition/Botanical Origin: Definition: *Plantago lanceolata* L. Commonly known as Plantain herb.

Plantain herb consists of the fresh or dried above-ground parts of *Plantago lanceolata* L. [Fam. Plantaginaceae], harvested at flowering season.

Plantain contains mucilage, iridoid glycosides such as aucubin and catapol, and tannin.

## Ethanol

### 3. Hazard Identification

Contraindication not known.

Side effects not known.

### 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: If adverse reaction occurs rinse mouth out with water. Seek medical advice immediately.

### 5. Fire Fighting Measures

Extinguishing media recommended: Use CO<sub>2</sub>, Dry Powder or Foam type of 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 & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

Environment precautions: Keep away from drains, soils, surface & groundwaters.

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

## **7. Handling & Storage**

Precautions in handling: Apply good manufacturing practice & industrial hygiene practices, 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 & protected from light. Keep air contact to a minimum.

Fire protection: Keep away from ignition sources & 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 of 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 & Chemical Properties

Colour: Brown.

Appearance: mobile liquid

Odour: Characteristic

Flavour: Characteristic

Relative density at 15°C :

Total Solids:

Ethanol content: 15%

Bacteria Content:  $<10^5$

Fungal Content:  $<10^4$

Escherichia coli: Absent

Salmonella: Absent

Additional data:

## 10. Stability & 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 & acrid fumes during combustion: carbon monoxide, carbon dioxide & other non-identified organic compounds may be formed.

## **11. Toxicological Information**

Class: I

None documented at the time of writing

## **12. Ecological Information**

Biodegradability: Data not available

Precautions: Prevent surface contamination of soil, ground & surface water.

## **13. Disposal Considerations.**

Avoid disposing to drainage systems. Seek expert advice.

## **14. Transport Regulations**

Road (ADR/RID): No special precautions

Air (IATA): No special precautions

Sea (IMDG): No special precautions

## **15. Regulatory Information.**

According to Directive 88/379/EEC

Hazards :  
Symbols :  
Risk Phrases :  
Safety Phrases :

<b>16. Other Information.</b>
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Conc. % Limits: N/A

**PACKAGING:**

Type: Suitability

Glass: Yes

Lacquer Lined Steel / Tin: Yes

Paper: Yes

HPPE: Yes

F/HDPE: Yes

Other Plastic: Yes

**SHELF-LIFE.**

Min 36 months when stored within advised conditions.

**Q.C. REQUIREMENTS.**

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

Retest after 12 months.

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.



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