

MATERIAL SAFETY DATA SHEET

GOLDEN SEAL / HYDRASTIS TINCTURE

1. Identification of substance/preparation & company.

Product Name: Hydrastis canadensis Tincture

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.

Alkaloids hydrastine, berberine and canadine

Carbohydrates starch

Ethanol

3. HAZARDS IDENTIFICATION:

None documented.

Echinacea may interfere with immuno-suppressive therapy.

Pregnancy and Lactation: The safety of echinacea has not been established.

In view of the lack of toxicity data, excessive use of echinacea during pregnancy should be avoided.

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 CO₂, 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 (BULK PRODUCT ONLY).

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: yellow/green to brown

Appearance: tincture is mobile liquid

Odour: Characteristic

Flavour: Characteristic

Relative density at 15°C :

Total Solids:

Ethanol content 45%

Bacteria Content: <10⁵

Fungal Content: <10⁴

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.

Echinacea is currently thought to be non-toxic but some papers have warned of possible interactions with immuno-suppressive drugs.

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) :

Air (IATA) :

Sea (IMDG) :

UN 1993 :

15. REGULATORY INFORMATION.

According to Directive 88/379/EEC

Hazards :

Symbols :

Risk Phrases :

Safety Phrases :

16. OTHER INFORMATION.

Conc. % Limits:

PACKAGING:

Type / Suitability

Glass	Yes	
Lacquer lined steel/tin		Yes
Aluminium	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 36 months.

The data provided in this product 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 data is supplied without warranty, expressed or implied, regarding it's 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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