

## MATERIAL SAFETY DATA SHEET

### CALENDULA TINCTURE

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

Product Name: Calendula Tincture  
Botanical Name: Calendula officinalis

Supplier:  
G. Baldwin & Co.  
173 Walworth Road,

LONDON, ENGLAND. SE17 1RW.

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

E-mail: [info@baldwins.co.uk](mailto:info@baldwins.co.uk)

Web: [www.baldwins.co.uk](http://www.baldwins.co.uk)

Emergency tel: +44 (0) 207 703 5550  
(office hours only)

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS.

Definition/Botanical Origin: Definition: Calendula officinalis, commonly known as calendula flower, marigold.

Calendula flowers consists of the dried flower heads or the dried ligulate flowers (ray florets)of Calendula officinalis L. [Fam. Asteraceae], as well as its preparation in effective dosage.

The drug contains triterpene glycosides and aglycones, as well as carotenoids and essential oils.

Ethanol

### **3. HAZARDS IDENTIFICATION:**

No side effects or contraindications have been reported.

Hazards associated with ethanol

### **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: Red

Appearance: Mobile liquid

Odour: Characteristic

Flavour: Slightly bitter

Ethanol content: 88-93%

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.

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 and into the environment. Seek expert advice.

## 14. TRANSPORT REGULATIONS.

Road (ADR/RID) : 3.3

Air (IATA) : 3.3

Sea (IMDG) : 3.3

UN 1993 : 1293

## 15. REGULATORY INFORMATION.

According to Directive 88/379/EEC

Hazards : Flammable liquid

Symbols : Flammable liquid

Risk Phrases : R10

Safety Phrases : S20/24

## 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.

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