



SAFETY DATA SHEET

BENZOIN TINCTURE

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: BENZOIN TINCTURE

PRODUCT NO: RM037

SUPPLIER: J M Loveridge Ltd
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EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

Primary Hazards:	Highly Flammable	
Physicochemical Effects:	Highly Flammable	
Health Effects:	Eyes	May cause conjunctival irritation and corneal damage; vapour may cause conjunctival irritation (due to Ethanol content).
	Ingestion	Ethanol taken to excess will cause central nervous system depression, indicated by nausea, vomiting, muscular incoordination, visual impairment and loss of consciousness. Aspiration during swallowing or vomiting will damage lungs.
	Inhalation	Vapour concentrations in excess of the occupational exposure limit may cause irritation of the eyes, nose and throat. High concentrations will produce central nervous system depression, indicated by nausea, vomiting, muscular incoordination, visual impairment and loss of consciousness. Aspiration during swallowing or vomiting will damage lungs.
	Skin	May cause slight irritation and sensitisation reactions.
Environmental Effects:	No test data	

3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION	A solution containing approximately 10%w/v benzoin, 82%v/v Ethanol (CAS No 64-17-5) and water.
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HAZARDOUS COMPONENTS			
Constituent	Typical	EC Number	Classification
Ethanol	82%v/v	200-578-6 (Annex I Index No. 603-002-00-5)	F:R11 Highly Flammable
CAS NUMBER	Product not classified		

4 FIRST-AID MEASURES

EYES

Remove contact lenses if possible. Irrigate eyes with water or eye wash solution for at least fifteen minutes holding the eye open. Seek medical attention if discomfort persists.

INGESTION

Wash mouth out thoroughly with water. DO NOT INDUCE VOMITING. If there are any difficulties with breathing give oxygen; if breathing stops or gives signs of failing apply artificial respiration and SEEK MEDICAL ASSISTANCE IMMEDIATELY.

INHALATION

Remove to fresh air, keep warm and at rest. If there are any difficulties with breathing give oxygen; if breathing stops or gives signs of failing apply artificial respiration and SEEK MEDICAL ASSISTANCE.

SKIN

Remove contaminated clothing; this should not be worn again until it has been laundered. Wash contaminated skin with soap and water. Seek medical assistance if discomfort persists.

ADVICE TO PHYSICIANS

Treat as alcoholic poisoning.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water spray, AFFF foam, chemical dry powder or carbon dioxide.

UNSUITABLE EXTINGUISHING MEDIA

Water jet.

SPECIAL HAZARDS

Burning will produce acrid smoke, irritating fumes, carbon monoxide and carbon dioxide.

PROTECTIVE EQUIPMENT

Self contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Extinguish sources of ignition; evacuate area; ventilate area.

ENVIRONMENTAL PRECAUTIONS

Do not allow product to enter drains and watercourses. Inform local authority and fire service if preparation enters drains or watercourses.

SPILLAGE

Absorb spillage using a proprietary absorbent or sand, scoop up and place in a suitable container; remove to a safe place and dispose of through a licensed waste disposal contractor for incineration. Ventilate area thoroughly. Wash contaminated area thoroughly with water and detergent. Any residue may be removed with Industrial Methylated Spirit.

7 HANDLING AND STORAGE

HANDLING

Use in well-ventilated area. Avoid static build up when pouring; earthing of container and receptacle may be required.

STORAGE

Store in well closed containers, away from heat and source of ignition.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS

1000ppm or 1900mg/m³ 8 hour TWA (Ethanol).

ENGINEERING CONTROL MEASURES

Safety shower and eye bath. Use non-sparking tools. Mechanical exhaust required.

EYE PROTECTION

Goggles or face-shield.

GENERAL PROTECTION

Overalls and PVC apron.

RESPIRATORY PROTECTION

Use respirators and components tested and approved to appropriate government standards (e.g. CEM, NIOSH, etc.) if vapour concentrations above the threshold level are likely to be present.

SKIN/HAND/PROTECTION

Suitable protective gloves, e.g. PVC or nitrile rubber.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	
Colour:	Brown	
Odour:	Characteristic odour of Benzoin and ethanol	
pH:	No test data	
Boiling Point °C:	>78.0	
Flash Point °C:	16 (closed cup)	
Explosion Limits:	Lower Limit 3.5%v/v	Upper Limit 19.0%v/v for Ethanol
Solubility in Water:	Yes	
Solubility in:	Ethanol	
Vapour Pressure (hPa):	No test data	
Relative Density:	0.845 – 0.860 at 20°C	
Flammability:	Flammable	
Auto-Ignition (°C):	>365	
Explosive Properties:	Moderate/severe in an enclosed space in the presence of a source of ignition	
Oxidising Properties:	None reported	
Viscosity (cSt):	No test data	
Vapour Density (air=1):	No test data	
Decomposition Temperature (°C):	No test data	
Dust Explosion Data:	Not applicable	
Partition Coefficient: N-Octanol/ Water:	Product not tested – ethanol log Pow = -0.32	
Evaporation Rate:	No test data	

10 STABILITY AND REACTIVITY

STABILITY

Stable.

CONDITIONS TO AVOID

Elevated storage temperatures.

MATERIALS TO AVOID

Oxidising agents, concentrated nitric acid and sulphuric acid.

HAZARDOUS DECOMPOSITION PRODUCTS

Decomposition will produce acrid smoke, irritating fumes, carbon dioxide and carbon monoxide.

11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral LD50 (rat) 6200 – 1700mg/kg (Ethanol).

Inhalation LC (rat) >20000mg/litre/4h (Ethanol).

Dermal LD50 (rabbit) >20000mg/kg (Ethanol).

EYE IRRITANT

May cause irritation due to ethanol content.

SKIN IRRITANT

May cause slight irritation.

SKIN SENSITISATION

Prolonged contact may cause sensitisation in some people.

SUB-ACUTE/SUBCHRONIC TOXICITY

No data available.

CHRONIC TOXICITY/CARCINOGENITY

No data available – Ingredients not classified as carcinogenic.

GENOTOXICITY

No data available.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY

Ethanol: Adverse effects on the male reproductive system have been reported in laboratory animals following repeated exposure. Developmental effects have been observed in laboratory animals.

HUMAN DATA

In humans excessive consumption of alcoholic beverages during pregnancy is associated with the induction of Foetal Alcohol Syndrome in the offspring. Reduced birth weight and physical and mental defects occur. There is no evidence that such effects might be caused by exposures other than direct ingestion of alcoholic drinks.

ADDITIONAL DATA

Nil.

12 ECOLOGICAL INFORMATION

MOBILITY

Expected to be mobile in the environment.

PERSISTANCE/DEGRADABILITY

Readily bio-degradable.

BIO-ACCUMULATION

No data available – not expected to bio-accumulate.

ECOTOXICITY

No data available.

13 DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL

Through licensed waste disposable contractor.

CONTAINER DISPOSAL

Wash out container, remove labels and send for recycling.

14 TRANSPORT INFORMATION

	NUMBER	PROPER SHIPPING NAME	CLASS	SUBSIDIARY RISK	PACK GROUP	
ADR INFO	1293	TINCTURES MEDICINAL	3	None	II	Transport Category 2 Tunnel Code D/E
IMDG INFO	1293	TINCTURES MEDICINAL	3	None	II	EmS F-E, S-D
IATA INFO	1293	TINCTURES MEDICINAL	3	None	II	Packing instructions: Y305 and 305 Passenger aircraft. ERG Code 3L

15 REGULATORY INFORMATION

A Chemical Safety Assessment has not been carried out for this preparation.

EC CLASSIFICATION

Health Not classified
 Physico Chemical Properties Highly Flammable
 Environmental Not classified

RISK PHRASES

R11 Highly Flammable

SAFETY PHRASES

S9 Keep container in well-ventilated place
 S16 Keep away from sources of ignition – No smoking

LEGISLATION

Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
 EC Directive 1999/45/EC on the classification, packaging and labelling of dangerous preparations.
 European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR).
 Dangerous Substances and Explosive Atmosphere Regulations 2002.

16 OTHER INFORMATION

REFERENCES USED

1. Martindale, 35th edition, pages 1462 (Ethanol) and 2163, 2170 (Benzoin).
2. Micromedex Poisindex(R) Substance Identification (Ethanol).
3. Sax's Dangerous Properties of Industrial Materials, eighth edition, page 1572 EFU000 (Ethyl Alcohol).
4. ESIS, European Chemical Substances Information system online.
5. Potter's New Cyclopaedia of Botanical Drugs and Preparations 1988 edition, page 29 (Benzoin).

Full list of R-Phrases used in Section 2: R11 – Highly flammable

DISCLAIMER

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