



SAFETY DATA SHEET

BENZOIN TINCTURE COMPOUND

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: BENZOIN TINCTURE COMPOUND

PRODUCT NO: RM038

SUPPLIER: J M Loveridge Ltd
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EMERGENCY CONTACT NUMBER:

2 HAZARDS IDENTIFICATION

Primary Hazards:	Highly Flammable. Irritant	
Physicochemical Effects:	None	
Health Effects:	Eyes	May cause conjunctival irritation and transient corneal damage; vapour may cause conjunctival irritation (due to ethanol content).
	Ingestion	Principle effect from ethanol is central nervous system depression, which may cause headaches, nausea, vomiting, muscular incoordination, loss of consciousness and respiratory failure. Aspiration during swallowing or vomiting will damage lungs. Aloes may cause gastro-intestinal irritation and diarrhoea.
	Inhalation	Ethanol: 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 and symptoms and effects similar to those for ingestion.
	Skin	May cause skin sensitisation on contact. Repeated or Prolonged contact may cause eczema and dermatitis. Unlikely To absorbed through skin in harmful amounts.
Environmental Effects:	No test data	

3 COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION: A product manufactured from 2.0%w/v Aloes (CAS No. 8001-97-6), 10%w/v Styrax Benzoin Resin, 10%w/v Prepared Storax (CAS No. 8046-19-3) and containing approximately 73%v/v Ethanol (CAS No. 64-17-5) and water.

HAZARDOUS COMPONENTS			
Constituent	Typical	EC Number	Classification
Ethanol	73%v/v	200-578-6	F:R11
Prepared Storax	10%w/v	232-458-4	Xi: R43
CAS NUMBER	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.

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 immediately.

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 irritation persists or if severe reactions are experienced.

ADVICE TO PHYSICIANS

Treat ingestion/inhalation 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

Use in a well ventilated area away from sources of ignition.

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. Ventilate area thoroughly. Wash contaminated area thoroughly with water and detergent. Any product residues may be removed with Industrial Methylated Spirit.

7 HANDLING AND STORAGE

HANDLING

Use in a 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. Attention is drawn to the Dangerous Substances and Explosive Atmosphere Regulations 2002 for the storage of containers of over 500ml in size.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARDS

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

ENGINEERING CONTROL MEASURES

Local exhaust ventilation.

EYE PROTECTION

Goggles or face-shield.

GENERAL PROTECTION

Overalls and PVC apron.

RESPIRATORY PROTECTION

Suitable organic vapour respirator, if vapour concentration above the regulatory limits are liable to be present.

SKIN/HAND/PROTECTION

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

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Colour:	Dark amber/brown
Odour:	Characteristic odour of benzoin
pH:	No test data
Boiling Point °C:	>78.0
Flash Point °C:	17 (closed cup)
Explosion Limits:	Lower Limit 3.5%v/v Upper Limit 19.0v/v Ethanol
Solubility in Water:	Partially soluble with precipitation
Solubility in:	Alcohol
Vapour Pressure (hPa):	No test data
Relative Density:	0.880 – 0.910 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 (Mobile Liquid)
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

Exposure to sources of ignition and high 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

Yes (Ethanol).

SKIN IRRITANT

May cause skin irritation.

SKIN SENSITISATION

May cause skin sensitisation.

SUB-ACUTE/SUBCHRONIC TOXICITY

No data.

CHRONIC TOXICITY/CARCINOGENITY

None reported.

GENOTOXICITY

None reported.

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 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 biodegradable.

BIO-ACCUMULATION

No data available – not expected to bio-accumulate.

ECOTOXICITY

No data available.

13 DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL

Through licensed waste disposal 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 Restriction 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 305 & Y305 passenger aircraft. Packaging instructions 307 cargo aircraft. ERG Code 3L.

15 REGULATORY INFORMATION

A chemical safety assessment has not been carried out for this preparation.

EC CLASSIFICATION

Health Irritant
 Physico Chemical Properties Highly Flammable
 Environmental Not classified

RISK PHRASES

R11 Highly Flammable
 R43 May cause sensitisation by skin contact

SAFETY PHRASES

S9 Keep container in well-ventilated place
 S16 Keep away from sources of ignition – No smoking
 S24 Avoid contact with skin
 S37 Wear suitable gloves

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), 2168 (Aloes), 1632 (Storax) and 2163 (Benzoin).
2. Micromedex Poisindex(R) Substance Identification (Ethanol).
3. Sax's Dangerous Properties of Industrial Materials, eighth edition, page 1572 EFU000 (Ethyl Alcohol).
4. Potter's New Cyclopaedia of Botanical Drugs and Preparations 1988 edition, page 29 (Benzoin).
5. Frutarom Safety Data Sheet for Prepared Storax.

Full list of R-Phrases used in Section 2:

R11 – Highly flammable

R43 – May cause sensitisation by skin contact

DISCLAIMER

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.