

1. IDENTIFICATION OF SUBSTANCE/PREPARATION AND MANUFACTURER

1.1 PRODUCT NAME COMPOUND BENZOIN TINCTURE BP

1.2 PRODUCT CODE BE/75

1.3 INTENDED USE Pharmaceutical Ingredient1.4 MANUFACTURER William Ransom and Son plc.

1.5 ADDRESS 53 Mead Industrial Estate, Burymead Road, Hitchin, Herts,

SG5 1RT, United Kingdom.

1.6 TELEPHONE/FAX NUMBER 0044 (0)1462 437615 / 0044 (0)1462 420528

1.7 DATE ISSUED 14th March 2011

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1 COMPOSITION	97-6), 10° (CAS 804 Ethanol (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 8046-19-3) and containing approximately 73%v/v Ethanol (CAS No 64-17-5) and water.						
2.2 HAZARDOUS COMPONENTS								
Constituent	Typical	EC Number	Classification					
Ethanol Prepared Storax	73%v/v 10%w/v	200-578-6 232-458-4	F: R11 Xi: R43					
2.3 CAS NUMBER Not classified								

3. HAZARD IDENTIFICATION

3.1 PRIMARY HAZARDS HIGHLY FLAMMABLE. IRRITANT.

3.2 HEALTH EFFECTS

EYES Will cause conjunctival irritation and transient corneal damage.

Vapour may cause conjunctival irritation.

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 Vapour concentrations in excess of the occupational exposure

limit may cause irritation of the eyes, nose and throat (Ethanol). High concentrations will produce central nervous system depression and symptoms and effects similar to those for

ingestion (Ethanol).

SKIN May cause skin sensitisation on contact. Repeated or

prolonged contact may cause eczema and dermatitis. Unlikely

to be absorbed through the skin in harmful amounts.

4. FIRST AID MEASURES

4.1 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 immediately.

4.2 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.

4.3 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

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medical assistance immediately.

4.4 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.

4.5 ADVICE TO PHYSICIANS Treat ingestion / inhalation as alcoholic poisoning.

5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA Water spray, AFFF foam, chemical dry powder or carbon

dioxide.

5.2 UNSUITABLE

EXTINGUISHING MEDIA Water jet.

5.3 SPECIAL HAZARDS Burning will produce acrid smoke, irritating fumes, carbon

monoxide and carbon dioxide.

5.4 PROTECTIVE EQUIPMENT Self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS U

6.2 ENVIRONMENTAL

PRECAUTIONS

Use in a well ventilated area away from sources of ignition. Do not allow product to enter drains and watercourses. Inform local authority and fire service if preparation enters drains or

watercourses.

6.3 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

7.1 HANDLING Use in a well-ventilated area. Avoid static build up when

pouring; earthing of container and receptacle may be required. 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 CONTROL/PERSONAL PROTECTION

8.1 OCCUPATIONAL

7.2 STORAGE

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

8.2 ENGINEERING

CONTROL MEASURES

8.3 EYE PROTECTION

8.4 GENERAL PROTECTION

8.5 RESPIRATORY

Local exhaust ventilation.

Goggles or face-shield.

Overalls and PVC apron.

Organic vapour respirator.

PROTECTION

8.6 SKIN/HAND/PROTECTION Suitable protective gloves, eg. PVC or Nitrile rubber.

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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 PHYSICAL STATE Liquid.

9.2 COLOUR Dark amber/brown.

9.3 ODOUR Characteristic odour of benzoin.

9.4 pH No test data.

9.5 BOILING POINT °C >78.0

9.6 FLASH POINT °C 17 (closed cup)

9.7 EXPLOSION LIMITS Lower Limit 3.5%v/v Upper Limit 19.0%v/v for Ethanol

9.8 SOLUBILITY IN WATER Partially soluble with precipitation.

9.9 SOLUBILITY IN Alcohol.
9.10 VAPOUR PRESSURE (hPa) No test data.

9.11 WEIGHT (g/ml) 0.880 –0.910 at 20°C.

9.12 FLAMMABILITY Flammable. 9.13 AUTO-IGNITION (°C) >365

9.14 EXPLOSIVE PROPERTIES Moderate/severe in an enclosed space in the presence of a

source of ignition.

9.15 OXIDISING PROPERTIES None reported.
9.16 VISCOSITY (cSt) No test data.
9.17 VAPOUR DENSITY (AIR=1) No test data.

9.18 DECOMPOSITION

TEMPERATURE (°C) No test data.
9.19 DUST EXPLOSION DATA Not applicable.

10 STABILITY AND REACTIVITY

10.1 STABILITY Stable.

10.2 CONDITIONS TO AVOID
10.3 MATERIALS TO AVOID
10.4 HAZARDOUS

Exposure to sources of ignition and high temperatures.
Oxidising agents, concentrated nitric acid and sulphuric acid.
Decomposition will produce acrid smoke, irritating fumes,

DECOMPOSITION PRODUCTS carbon dioxide and carbon monoxide.

11 TOXICOLOGICAL INFORMATION

11.1 ACUTE TOXICITY Ethanol: LD50 Oral Rat 7060mg/kg

11.2 EYE IRRITANT Yes (Ethanol).

11.3 SKIN IRRITANT May cause skin irritation.
11.4 SKIN SENSITISATION May cause skin sensitisation.

11.5 SUB-ACUTE/SUBCHRONIC

TOXICITY No data.

11.6 CHRONIC TOXICITY/

CARCINOGENITY None reported. 11.7 GENOTOXICITY None reported.

11.8 REPRODUCTIVE/ Ethanol - Adverse effects on the male reproductive system

DEVELOPMENTAL TOXICITY have been reported in laboratory animals following repeated

exposure. Developmental effects have been observed in

laboratory animals

11.9 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.

11.10 ADDITIONAL DATA Nil.

12 ECOLOGICAL INFORMATION

12.1 MOBILITY Expected to be mobile in the environment.

12.2 PERSISTANCE/

DEGRADABILITY Readily biodegradable.

12.3 BIO-ACCUMULATION No data available.

12.4 ECOTOXITY No data available.

13 DISPOSAL

13.1 PRODUCT DISPOSAL Through licensed waste disposable contractor.

13.2 CONTAINER DISPOSAL Wash out container, remove labels and send for recycling.

14 TRANSPORT INFORMATION

	NUMBER	PROPER SHIPPING NAME	CLASS	SUBSIDIARY RISK	PACK GROUP	
14.1 ADR INFO	1293	Tinctures, medicinal	3	None	II	Hazard Ident No. 33 Transport Category 2 (Tunnel Restriction Code D/E)
14.2 IMDG INFO	1293	Tinctures, medicinal	3	None	II	EmS F-E, S-D
14.3 IATA INFO	1293	Tinctures, medicinal	3	None	II	Packaging instructions 305 & Y305 passenger aircraft Packaging instructions 307 cargo aircraft. ERG Code 3L.

15 REGULATORY INFORMATION

15.1 EC CLASSIFICATION

HEALTH IRRITANT

PHYSICO

CHEMICAL PROPERTIES HIGHLY FLAMMABLE

ENVIRONMENTAL Not classified.

15.2 RISK PHRASES R11 Highly flammable.

R43 May cause sensitisation by skin contactS9 Keep container in a well ventilated place.

15.3 SAFETY PHRASES

S9 Keep container in a well ventilated place.

S16 Keep away from sources of ignition – No smoking.

S24 Avoid contact with skin

S37 Wear suitable gloves

16 NATIONAL LEGISLATION

16.1 Chemicals (Hazard Information And Packaging For Supply) Regulations 2002 (as amended)

16.2 The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2004.

16.3 Dangerous Substances and Explosive Atmosphere Regulations 2002.

17 OTHER INFORMATION

17.1 REFERENCES USED

1. Martindale, 35th edition, pages 1462 (Ethanol), 2168 (Aloes), 1632 (Storax) and 2163 (Benzoin).

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- 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.

William Ransom & Son plc

PRODUCT SAFETY DATA SHEET

17.2 FULL LIST OF R-PHRASES USED

IN SECTION 2.2

R11 - Highly Flammable

R43 - May cause sensitisation by skin contact

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17.3 PRODUCT SAFETY DATA SHEET

FIRST ISSUED

17.4 PRODUCT SAFETY DATA SHEET

REVISED

17.5 REASON FOR REVISION

17.6 ISSUE STANDARD

17.7 APPROVED BY

14th January 1988

11th March 2011

Updated with regards to ingredient MSDS.

Quality Assurance/Compliance Manager

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