Vickers Laboratories Ltd - Safety Data Sheet 1314

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 3.0
(Replaces revision 2.0 of 26 August 2022)

Revision date: 09 December 2022
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Section 1. Identification

1.1 Product Identifier 1314

Product Name EMBALMING FLUID - (IMPERIAL COLLEGE LONDON NEW)

CAS Number Mixture
REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd

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UNITED KINGDOM

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1.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811
(24hr) 112
(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 2	H225: Highly flammable liquid and vapour.
Germ cell mutagenicity, category 2	H341: Suspected of causing genetic defects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms

Hazard Statements Highly flammable liquid and vapour. Suspected of causing genetic defects.

Precautionary Statements	Keep away from heat / sparks/open flames/hot surfaces - No smoking. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention.

Section 3. Composition

3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ethanol	64-17-5	200-578-6	01-2119457610-43-XXXX	41.5%	Flam. Liq. 2,Eye Irrit. 2
Methanol	67-56-1	200-659-6	01-2119433307-44-XXXX	1.3%	Flam. Liq. 2,Acute Tox. 3 (O),Acute Tox. 3 (D),Acute Tox. 3 (I),STOT SE 1
Phenol	108-95-2	203-632-7	01-2119471329-32-XXXX	0.5%	Acute Tox. 3 (O),Acute Tox. 3 (D),Skin Corr. 1B,Acute Tox. 3 (I),Muta. 2,STOT RE 2,Aquatic Chronic 2

Section 4. First Aid

4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.
Skin	Remove contaminated clothing immediately avoiding contamination of unaffected areas. Swab contaminated skin with a mixture of 70 parts polyethylene glycol and 30 parts alcohol. Alternatively use glycerol or polyethylene glycol, or if solvents are not available flush with water for at least 10 minutes. OBTAIN MEDICAL ATTENTION URGENTLY.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. Convulsions may occur and cause unconsciousness. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media	Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool.
Unsuitable Media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards	Vapour-air mixtures are explosive.

5.3 Advice for firefighters

Advice for firefighters	Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection	Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so.

6.2 Environmental precautions

Enviromental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.
Minor Spillage	Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term (8hr TWA)		Short Term 15min period)	
Ethanol	64-17-5	41.5%	1000.0 ppm	1920.0 mg/m-3	-	-
Methanol	67-56-1	1.3%	200.0 ppm	266.0 mg/m-3	250.0 ppm	333.0 mg/m-3
Phenol	108-95-2	0.5%	2.0 ppm	8.0 mg/m-3	4.0 ppm	16.0 mg/m-3

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.
Hand Protection	Use PVC gauntlets.
Eye Protection	Use chemical full face shield.
Skin Protection	Wear PVC oversuit.
Special Hazards	No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Clear colourless to pale brown liquid.
Odour	Fresh and characteristic of phenol.
pH	Not applicable
Boiling Point	78.3°C
Melting Point	-112.3°C
Flash Point	12°C (Closed cup)
Upper Flammable Limit	19%
Lower Flammable Limit	3.3%

Auto Ignition	363°C
Explosive Properties	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	59mmHg @ 20°C
Relative Density	0.928
Water Solubility	Completely miscible in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
10.5	Incompatable Materials	Strong oxidising agents. Mineral acids. Alkalis.
10.6	Hazardous Decomposition Products	None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	The liquid will cause severe burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	The liquid will cause severe burns. Because of its local anaesthetic effect, skin burns may be painless. Even small amounts may lead rapidly to a state of collapse. Symptoms include, profuse sweating, vomiting, cyanosis, convulsions, leading to coma and respiratory failure.
LD50 Skin	Not available
Ingestion	Harmful if swallowed. Causes severe corrosion of the mouth, throat and gastro-intestinal tract. Ingestion may prove fatal.
LD50 Oral	Not available
Inhalation	Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may cause digestive and nervous disorders, pulmonary oedema or liver and kidney failure.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	May be a mutagen.
Reproductive Effects	None identified.

Section 12. Ecological

12.1	Toxicity	Slightly toxic to aquatic species but will bioaccumulate.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not available
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

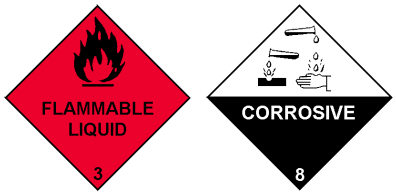
Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods	Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion.
Contaminated Packaging	Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion. Clean out with a weak sodium hydroxide solution then wash out thoroughly with water.

Section 14. Transport Information

14.1	**UN Number**	2924
14.2	**Proper Shipping Name**	Flammable liquid, corrosive, N.O.S. (Ethanol, Methanol, Phenol)
14.3	**Transport classes**	
	UN classification	3
	Subsidiary hazard(s)	8
	Transport category	2
	ADR Hazard ID	38
	Tunnel Restriction Code	D/E
14.4	**Packing Group**	III
14.5	**Environment hazards**	See section 12.
14.6	**Special precautions for user**	No special precautions required.
14.7	**Transport in bulk**	Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Flammable liquid, category 2; Germ cell mutagenicity, category 2
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H225, H341 Highly flammable liquid and vapour. Suspected of causing genetic defects.
Precautionary Statements	P210, P303+P361+P353, P308+P313 Keep away from heat / sparks/open flames/hot surfaces - No smoking. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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