

## Section 1. Identification

### 1.1 Product Identifier 3449

Product Name EMBALMING FLUID - (Edinburgh Formulation)

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 Relevant identified uses of the substance or mixture & 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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### 1.4 Emergency Telephone (08:00-16:30) 44 113 2362811 (24hr) 112 (Have this document to hand)

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

#### Classification according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

|                                            |                                                                          |
|--------------------------------------------|--------------------------------------------------------------------------|
| Flammable liquid, category 2               | H225: Highly flammable liquid and vapour.                                |
| Skin corrosion/irritation, category 1B     | H314: Causes severe skin burns and eye damage.                           |
| Acute toxicity, category 4 (oral)          | H302: Harmful if swallowed.                                              |
| Acute toxicity, category 4 (dermal)        | H312: Harmful in contact with skin.                                      |
| Acute toxicity, category 4 (inhalation)    | H332: Harmful if inhaled.                                                |
| Skin sensitization, category 1             | H317: May cause an allergic skin reaction.                               |
| Germ cell mutagenicity, category 2         | H341: Suspected of causing genetic defects.                              |
| Carcinogenicity, category 1B               | H350: May cause cancer.                                                  |
| Spec target organ tox - repeat, category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |

### 2.2 Label elements

#### Labelling according to regulation (EC) 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567

Signal word Danger

Hazard Pictograms



**Hazard Statements** May cause cancer. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes severe skin burns and eye damage. Highly flammable liquid and vapour. May cause an allergic skin reaction. Harmful in contact with skin. Harmful if inhaled.

**Precautionary Statements** Use personal protective equipment as required. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing mist/vapours/spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

## Section 3. Composition

### 3.2 Mixtures

| Component    | CAS No.  | EC No.    | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE)                                                                                |
|--------------|----------|-----------|-----------------------|----------|------------------------------------------------------------------------------------------------------------------|
| Ethanol      | 64-17-5  | 200-578-6 | 01-2119457610-43-XXXX | ~49.1%   | Flam. Liq. 2, Eye Irrit. 2                                                                                       |
| Phenol       | 108-95-2 | 203-632-7 | 01-2119471329-32-XXXX | ~7%      | Acute Tox. 3 (O), Acute Tox. 3 (D), Skin Corr. 1B, Acute Tox. 3 (I), Muta. 2, STOT RE 2, Aquatic Chronic 2       |
| Methanol     | 67-56-1  | 200-659-6 | 01-2119433307-44-XXXX | ~3.2%    | Flam. Liq. 2, Acute Tox. 3 (O), Acute Tox. 3 (D), Acute Tox. 3 (I), STOT SE 1                                    |
| Formaldehyde | 50-00-0  | 200-001-8 | 01-2119488953-20-XXXX | ~3%      | Acute Tox. 3 (O), Acute Tox. 3 (D), Skin Corr. 1B, Acute Tox. 3 (I), Eye Dam. 1, Skin Sens. 1, Muta. 2, Carc. 1B |

## 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

Environmental 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  | ~49.1%        | 1000.0 ppm                | 1920.0 mg/m-3 | -                       | -            |
| Phenol       | 108-95-2 | ~7%           | 2.0 ppm                   | 8.0 mg/m-3    | 4.0 ppm                 | 16.0 mg/m-3  |
| Methanol     | 67-56-1  | ~3.2%         | 200.0 ppm                 | 266.0 mg/m-3  | 250.0 ppm               | 333.0 mg/m-3 |
| Formaldehyde | 50-00-0  | ~3%           | 2.0 ppm                   | 2.5 mg/m-3    | 2.0 ppm                 | 2.5 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         | Not available                          |
| Melting Point         | Not applicable                         |
| Flash Point           | 12°C (Open 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       | Not applicable                         |
| Relative Density      | 0.9430                                 |
| Water Solubility      | Completely soluble 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 Incompatible 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      | May cause cancer. Contains Formaldehyde. This has been extensively studied.                                                                                                                                                                                                        |
| Mutagenicity         | Suspected of causing genetic defects.                                                                                                                                                                                                                                              |
| 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                    | 2929                                                                        |
| 14.2 | Proper Shipping Name         | Toxic liquid, flammable, organic, N.O.S.<br>(Ethanol, Phenol, Formaldehyde) |
| 14.3 | Transport classes            |                                                                             |
|      | UN classification            | 6.1                                                                         |
|      | Subsidiary hazard(s)         | 3                                                                           |
|      | Transport category           | 2                                                                           |
|      | ADR Hazard ID                | 63                                                                          |
|      | Tunnel Restriction Code      | D/E                                                                         |
| 14.4 | Packing Group                | II                                                                          |
| 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 substance/mixture.

**Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE) as amended by GB-CLP Regulation, UK SI 2019/720 & UK SI 2020/1567**

**Classification** Flammable liquid, category 2; Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (dermal); Acute toxicity, category 4 (inhalation); Skin sensitization, category 1; Germ cell mutagenicity, category 2; Carcinogenicity, category 1B; Spec target organ tox - repeat, category 2

**Signal word** Danger

**Hazard Pictograms**



**Hazard Statements** H350, H341, H373, H302, H314, H225, H317, H312, H332

May cause cancer. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure. Harmful if swallowed. Causes severe skin burns and eye damage. Highly flammable liquid and vapour. May cause an allergic skin reaction. Harmful in contact with skin. Harmful if inhaled.

Precautionary Statements P281, P210, P261, P301+P330+P331, P303+P361+P353, P305+P351+P338  
Use personal protective equipment as required. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing mist/vapours/spray. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing.

#### 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.

Revision number: 1.3 (Supercedes revision 1.2)

Revision date: 23 January 2025

Reviewed by chemist: 23 January 2025

Printed date: 27 December 2025

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