

# Vickers Laboratories Ltd - Safety Data Sheet

**0295**

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

Revision: 3.1

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23 January 2025

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## Section 1. Identification

### 1.1 Product Identifier 0295

Product Name EMBALMING FLUID - (Thiel Tank Fluid)

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



Grangefield Industrial Estate  
Richardshaw Road  
Pudsey  
West Yorkshire  
LS28 6QW  
UNITED KINGDOM

Phone 44 113 2362811  
Fax +44(0)113 2362703  
Email [safety@viclabs.co.uk](mailto:safety@viclabs.co.uk)  
Website [www.viclabs.co.uk](http://www.viclabs.co.uk)

### 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

|   |   |
|---|---|
| Skin corrosion/irritation, category 2     | H315: Causes skin irritation.                   |
| Serious eye damage/irritation, category 1 | H318: Causes serious eye damage.                |
| 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.                         |
| Reproductive toxicity, category 1B        | H360: May damage fertility or the unborn child. |

### 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        | Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.  |
| Precautionary Statements | Avoid breathing mist/vapours/spray. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |

## Section 3. Composition

### 3.2 Mixtures

| Component         | CAS No.    | EC No.    | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE)  |
|-------------------|------------|-----------|-----------------------|----------|--|
| Ammonium nitrate  | 6484-52-2  | 229-347-8 | 01-2119490981-28-XXXX | <8%      | Ox. Sol. 3, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 (I)   |
| Potassium nitrate | 7757-79-1  | 231-818-8 | 01-2119488224-35-XXXX | <5%      | Ox. Sol. 3   |
| Boric Acid        | 10043-35-3 | 233-139-2 | 01-2119486683-25-XXXX | <3%      | Repr. 1B   |
| Formaldehyde      | 50-00-0    | 200-001-8 | 01-2119488953-20-XXXX | <1%      | 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 |
| Chlorocresol      | 59-50-7    | 200-431-6 |                       | <0.2%    | Acute Tox. 4 (O), Acute Tox. 4 (D), Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1                                    |
| Methanol          | 67-56-1    | 200-659-6 | 01-2119433307-44-XXXX | ~0.1%    | Flam. Liq. 2, Acute Tox. 3 (O), Acute Tox. 3 (D), Acute Tox. 3 (I), STOT SE 1                                    |

## 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. If discomfort persists OBTAIN MEDICAL ATTENTION.  |
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE |
| Inhalation                           | Remove from exposure.   |
| Ingestion                            | If conscious give plenty of water to drink. Do not induce vomiting. 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 | Consider what other flammable materials are present and act accordingly. |
| Unsuitable Media    | Nothing specified.   |

### 5.2 Special hazards arising from the substance or mixture

|         |                                   |
|---------|-----------------------------------|
| Hazards | Presents no specific fire danger. |
|---------|-----------------------------------|

### 5.3 Advice for firefighters

|                         |   |
|-------------------------|---|
| Advice for firefighters | Consider all other materials in the vicinity. |
|-------------------------|---|

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Use approved personal protective equipment. Evacuate area immediately. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so.

### 6.2 Environmental precautions

Environmental Keep non-neutralised 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 Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash area down with copious amounts of water.

Minor Spillage 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

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 .

### 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 |              |
| Ammonium nitrate  | 6484-52-2  | <8%           | -                         | -            | -                       | -            |
| Potassium nitrate | 7757-79-1  | <5%           | -                         | -            | -                       | -            |
| Boric Acid        | 10043-35-3 | <3%           | -                         | -            | -                       | -            |
| Formaldehyde      | 50-00-0    | <1%           | 2.0 ppm                   | 2.5 mg/m-3   | 2.0 ppm                 | 2.5 mg/m-3   |
| Chlorocresol      | 59-50-7    | <0.2%         | -                         | -            | -                       | -            |
| Methanol          | 67-56-1    | ~0.1%         | 200.0 ppm                 | 266.0 mg/m-3 | 250.0 ppm               | 333.0 mg/m-3 |

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

### 8.2 Exposure controls

Respiratory Protection In cases where a spray or mist may be formed, use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

|                       |                          |
|-----------------------|--------------------------|
| Appearance            | Clear colourless liquid. |
| Odour                 | Characteristic.          |
| pH                    | Not applicable           |
| Boiling Point         | Not available            |
| Melting Point         | Not applicable           |
| Flash Point           | Not applicable           |
| Upper Flammable Limit | Not applicable           |
| Lower Flammable Limit | Not applicable           |
| Auto Ignition         | Not applicable           |
| Explosive Properties  | No.                      |
| Oxidising Properties  | Yes.                     |
| Vapour Pressure       | Not applicable           |
| Relative Density      | Not available            |
| Water Solubility      | Not available            |

### 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                | No specific conditions.        |
| 10.5 | Incompatible materials             | Alkalis. Reducing agents.      |
| 10.6 | Hazardous Decomposition Products   | Not determined.                |

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

|                      |  |
|----------------------|--|
| Eyes                 | Causes eye irritation and may cause burns if contact is prolonged  |
| Skin                 | Repeated or prolonged contact may defat the skin producing irritation and dermatitis.  |
| LD50 Skin            | Not available  |
| Ingestion            | Low order of acute toxicity.   |
| LD50 Oral            | Not available  |
| Inhalation           | Prolonged exposure to vapour concentrations above the occupational exposure limits may produce irritation of the eyes, nose, throat and respiratory tract. |
| 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 | Evidence of reproductive effects.  |

## Section 12. Ecological

|      |                               |   |
|------|-------------------------------|---|
| 12.1 | Toxicity                      | Small amounts present no specific environmental hazard. Neutralised material presents no specific environmental hazard. |
|      | LC50 Algal                    | Not available   |
|      | LC50 Crustacea                | Not available   |
|      | LC50 Fish                     | Not available   |
| 12.2 | Persistence and degradability | No data available.  |

|             |                                  |                          |
|-------------|----------------------------------|--------------------------|
| <b>12.3</b> | Bioaccumulative potential        | No data available.       |
| <b>12.4</b> | Mobility in soil                 | No data available.       |
| <b>12.5</b> | Results of PBT & vPvB assessment | Assessment not required. |
| <b>12.6</b> | Other adverse effects            | None known at present.   |

## Section 13. Disposal Considerations

### 13.1 Waste treatment methods

|                        |   |
|------------------------|---|
| Disposal Methods       | Dilute in a large excess of water and carefully neutralise with soda ash, then wash to drain with copious amounts of water. |
| Contaminated Packaging | Wash out containers with water. copious amounts of water.   |

## Section 14. Transport Information

|             |                                     |                                  |
|-------------|-------------------------------------|----------------------------------|
| <b>14.1</b> | <b>UN Number</b>                    | Non-restricted                   |
| <b>14.2</b> | <b>Proper Shipping Name</b>         | Non-restricted                   |
| <b>14.3</b> | <b>Transport classes</b>            |                                  |
|             | UN classification                   | None                             |
|             | Subsidiary hazard(s)                | None                             |
|             | Transport category                  | None                             |
|             | ADR Hazard ID                       | Non-restricted                   |
|             | Tunnel Restriction Code             | Non-restricted                   |
| <b>14.4</b> | <b>Packing Group</b>                | None                             |
| <b>14.5</b> | <b>Environment hazards</b>          | See section 12.                  |
| <b>14.6</b> | <b>Special precautions for user</b> | No special precautions required. |
| <b>14.7</b> | <b>Transport in bulk</b>            | 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 Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 1; Skin sensitization, category 1; Germ cell mutagenicity, category 2; Carcinogenicity, category 1B; Reproductive toxicity, category 1B

Signal word Danger

Hazard Pictograms



Hazard Statements H315, H318, H317, H341, H350, H360  
Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child.

Precautionary Statements P261, P281, P305+P351+P338, P303+P361+P353  
Avoid breathing mist/vapours/spray. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

### 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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