

## Section 1. Identification

### 1.1 Product Identifier 3367

Product Name PRESERVATION FLUID - (Aberdeen 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(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.  
Acute toxicity, category 3 (oral) H301: Toxic if swallowed.  
Acute toxicity, category 3 (dermal) H311: Toxic in contact with skin.  
Acute toxicity, category 3 (inhalation) H331: Toxic if inhaled.  
Spec target organ tox - single, category 1 H370: Causes damage to organs.

### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



|                          |   |
|--------------------------|---|
| Hazard Statements        | Highly flammable liquid and vapour. Toxic if swallowed, inhaled and in contact with skin. Causes damage to eyes & central nervous system.   |
| Precautionary Statements | Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. Do not eat, drink or smoke when using this product. Store in a well ventilated place. Keep cool. Keep container tightly closed. |

## Section 3. Composition

### 3.2 Mixtures

| Component | CAS No. | EEC No.   | REACH No.             | Conc w/w | CLP Classification (1272/2008/CE)   |
|-----------|---------|-----------|-----------------------|----------|---|
| Methanol  | 67-56-1 | 200-659-6 | 01-2119433307-44-XXXX | >45%     | 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. OBTAIN MEDICAL ATTENTION.   |
| Skin                                 | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.   |
| 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. 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. |
| 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 container for removal. Allow solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste. 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 |           |              |
| Methanol  | 67-56-1 | >45%          | 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 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 solvent resistant gloves.

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

Skin Protection Avoid contact with skin. 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 Fresh and characteristic.  
pH Not applicable  
Boiling Point 64.8°C  
Melting Point ~-70°C

|                       |                                     |
|-----------------------|-------------------------------------|
| Flash Point           | ~20°C (est)                         |
| Upper Flammable Limit | 36.5%                               |
| Lower Flammable Limit | 6%                                  |
| Auto Ignition         | 385°C                               |
| Explosive Properties  | Moderate/severe in confined spaces. |
| Oxidising Properties  | No.                                 |
| Vapour Pressure       | 100mmHg @ 20°C                      |
| Relative Density      | 0.911                               |
| 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 Incompatible Materials             | Bromine. Sodium hypochlorite, diethyl zinc, dialkylaluminium solutions, and phosphorous trioxide. Nitric acid, hydrogen peroxide, sodium and chloroform and potassium tertiary butoxide. Lead perchlorate. |
| 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                 | Both the vapour and liquid are, very dangerous to the eyes since methanol has a specific effect on the optic nerve and retina.  |
| Skin                 | Repeated exposure may cause dermatitis. Many of the effects typical of the vapour can result from absorption through the skin.  |
| LD50 Skin            | 20000mg/kg (est) Rabbit   |
| Ingestion            | Ingestion will cause symptoms resembling those of alcoholic intoxication ie excitation and irritability. After a latent period of 10-15 hours more serious damage to the central nervous system especially to the optic nerve occurs. Even if death does not occur permanent blindness may occur.   |
| LD50 Oral            | >2000mg/kg (est) Rat  |
| Inhalation           | Exposure to vapour concentrations above the occupational exposure limits may cause headache, nausea, vomiting and irritation of the mucous membranes. High concentrations of vapour may damage the central nervous system and cause blindness. Due to the slow metabolism of the toxic metabolites formic acid and formaldehyde the effects can be cumulative and continued exposure to low levels may cause the above effects. |
| LD50 Inhalation      | >128.2mg/l (est) Rat (4 hours)  |
| TCLo                 | Not available   |
| Carcinogenicity      | Not considered to be a carcinogen.  |
| Mutagenicity         | Not considered to be a mutagen.   |
| Reproductive Effects | High vapour concentrations (10000 ppm) caused increased congenital malformations.   |

## Section 12. Ecological

|                                    |  |
|------------------------------------|--|
| 12.1 Toxicity                      | Substantially biodegradable in water, biological oxygen demand (B.O.D.) 5 day 70%. No evidence of inhibition to the aerobic treatment process at 39500mg/l but evidence of inhibition occurs at concentrations greater than 79000mg/l. |
| LC50 Algal                         | >22000mg/l (est) Algae (96 hours)  |
| LC50 Crustacea                     | >10000mg/l (est) Daphnia magna (48 hours)  |
| LC50 Fish                          | >15400mg/l (est) Bluegill (Lepomis macrochirus) (96 hours)   |
| 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.   |

## Section 14. Transport Information

|      |                              |                                  |
|------|------------------------------|----------------------------------|
| 14.1 | UN Number                    | 1230                             |
| 14.2 | Proper Shipping Name         | Methanol                         |
| 14.3 | Transport classes            |                                  |
|      | UN classification            | 3                                |
|      | Subsidiary hazard(s)         | 6.1                              |
|      | Transport category           | 2                                |
|      | ADR Hazard ID                | 336                              |
|      | 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)

Classification Flammable liquid, category 2; Acute toxicity, category 3 (oral); Acute toxicity, category 3 (dermal); Acute toxicity, category 3 (inhalation); Spec target organ tox - single, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H225, H301+H311+H331, H370  
Highly flammable liquid and vapour. Toxic if swallowed, inhaled and in contact with skin. Causes damage to eyes & central nervous system.

Precautionary Statements P210, P280, P260, P270, P403+P235, P233  
Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection. Do not breathe fume/vapours. Do not eat, drink or smoke when using this product. Store in a well ventilated place. Keep cool. Keep container tightly closed.

### 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: 1.2 (Supercedes revision 1.1)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 30 November 2024

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