

Section 1. Identification**1.1 Product Identifier** 0753

Product Name	PRESERVATION FLUID - (Imperial College Soft Fix)
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.
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1.3 Supplier Vickers Laboratories Ltd

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(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.
Skin corrosion/irritation, category 1B	H314: Causes severe skin burns and eye damage.
Acute toxicity, category 4 (oral)	H302: Harmful if swallowed.
Germ cell mutagenicity, category 2	H341: Suspected of causing genetic defects.
Spec target organ tox - single, category 2	H371: May cause 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. May cause damage to organs. Causes severe skin burns and eye damage. Suspected of causing genetic defects. Harmful if swallowed.

Precautionary Statements Do not handle until all safety precautions have been read and understood. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep container tightly closed. Wear protective gloves / protective clothing / eye protection. Store in a well ventilated place. Keep cool. Do not breathe fume/vapours. **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.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ethanol Industrial	64-17-5	200-578-6	01-2119457610-43-XXXX	31.21%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 2
Phenol	108-95-2	203-632-7	01-2119471329-32-XXXX	8.42%	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	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.
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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.
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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)	
Ethanol Industrial	64-17-5	31.21%	1000.0 ppm	1920.0 mg/m-3	-	-
Phenol	108-95-2	8.42%	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 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 to pale yellow liquid.

Odour Fresh and 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	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	0.9634
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	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	Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	Repeated exposure may cause dermatitis.
LD50 Skin	Not available
Ingestion	Burns to mouth, throat and stomach.
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.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	A mutagen.
Reproductive Effects	Some evidence for foetotoxicity and tetragenicity has been observed in experimental animals
Other Information	The odour threshold (ca 0.5ppm) is below the MEL (2ppm).

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 1170
- 14.2 Proper Shipping Name Ethanol
- 14.3 Transport classes
- UN classification 3
- Subsidiary hazard(s) None
- Transport category 2
- ADR Hazard ID 33
- 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; Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Germ cell mutagenicity, category 2; Spec target organ tox - single, category 2
- Signal word Danger
- Hazard Pictograms
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- Four red diamond-shaped hazard pictograms are shown in a row. From left to right: 1. A black flame icon. 2. A black icon of a hand being poured on by a test tube. 3. A black exclamation mark. 4. A black silhouette of a person with a starburst on their chest.
- Hazard Statements H225, H371, H314, H341, H302
Highly flammable liquid and vapour. May cause damage to organs. Causes severe skin burns and eye damage. Suspected of causing genetic defects. Harmful if swallowed.
- Precautionary Statements P202, P210, P233, P280, P403+P235, P260, P305+P351+P338
Do not handle until all safety precautions have been read and understood. Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep container tightly closed. Wear protective gloves / protective clothing / eye protection. Store in a well ventilated place. Keep cool. Do not breathe fume/vapours. 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: 2.2 (Supercedes revision 2.1)

Revision date: 10 November 2022

Reviewed by chemist: 10 November 2022

Printed date: 30 November 2024

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