F4L-A Material Safety Data Sheet

According to EC-Regulation No. 1907/2006
Version 1.01. 01-02-2018

Section 1: Product and Company Information

1.1 Product code

F4L-A

1.2 Product description

Embalming fluid component to be mixed with F4L-B (1:1) to preserve life-like morphology of deceased human or animal bodies by means of arterial perfusion.

1.3 Contact information

Company: Fix for Life B.V., Leliestraat 54, 2313BH Leiden, Netherlands
Phone: +31615676299

1.4 Emergency telephone number

Emergency phone: 112

Section 2: Hazards Identification

2.1 Classification of the mixture

F4L-A	**Classification according to Regulation (EC) No 1272/2008** Contains aldehyde 5 – 10% Germ cell mutagenicity (Category 2), H341 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

F4L-A	Pictogram  Signal word Warning Hazard statement(s) H341 Suspected of causing genetic defects Precautionary statements P281 Use personal protective equipment as required

2.3 Other hazards

Slightly irritant to respiratory organs

Slightly irritant to eyes

Section 3: Composition and Information on Ingredients

Mixtures

Specific composition as a result of applicable regulations is not necessary to show.

Name	Conc.	Classification according to CLP
Aldehyde	5 – 10%	Muta. 2; H341, EUH031
Other components		Non-hazardous according to Directive 2008/98/EC.

Section 4: First Aid Measures

4.1 Description of first aid measures

General advice:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

In Case of Inhalation

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

In Case of Contact with Skin:

Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.

In Case of Contact with Eyes:

Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

In Case of Accidental Swallowing:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Consult a doctor/medical service if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed:

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.2.1 Acute symptoms

After inhalation:

ON HEATING: Irritation of the respiratory tract. Irritation of the nasal mucous membranes.

After skin contact:

Unlikely to cause harmful effects.

After eye contact:

Redness of the eye tissue. Slight irritation.

After ingestion:

Nausea. Vomiting. Diarrhea. AFTER ABSORPTION OF HIGH QUANTITIES: Headache. Dehydration. Disturbances of heart rate. Change in the haemogramme/blood composition. Decreased renal function.

4.2.2 Delayed symptoms

If applicable and available it will be listed below.

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

If applicable and available it will be listed below.

Section 5: Fire-Fighting Measures

Non-flammable, no specific measurements needed.

5.1 Extinguishing media

5.1.1. Suitable extinguishing media

Water spray. Alcohol-resistant foam. Dry chemical powder. Carbon dioxide. Dry sand.

5.1.2. Unsuitable extinguishing media

Container may slop over if solid jet (water/foam) is applied.

5.2 Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed. May polymerize on exposure to temperature rise. Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapors (acrolein).

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.3.1 Instructions

Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Dilute toxic gases with water spray.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

See heading 8.2

6.2 Environmental precautions

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply.

6.3 Methods for Cleaning Spills

Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite or kieselguhr, powdered limestone. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4 Reference to other sections

For disposal see section 13.

Section 7 - Handling and Storage

7.1 Handling

Observe normal hygiene standards. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

7.2 Storage

Keep container tightly closed. Protect from light

7.2.1 Safe storage requirements:

Store in a dry area at room temperature

Section 8 - Personal Protection and Exposure

8.1 Control parameters

No data available

8.2 Exposure controls

The information in this section is a general description.

8.2.1 Appropriate engineering controls

Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Do not eat, drink or smoke during work.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards

a) Respiratory protection:	When risk assessment indicates
b) Hand protection:	Gloves
c) Eye protection:	Safety glasses
d) Skin protection:	Protective clothing.

8.2.1 Environmental exposure controls:

See headings 6.2, 6.3 and 13

Section 9 - Physical and Chemical Properties

Appearance

F4L-A	5000cc HDPE container, blue
Physical State	Liquid

Section 10 - Chemical Stability and Reactivity

10.1 Reactivity

No data available

10.2 Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

Section 11 - Toxicological Data

No data available.

Section 12 - Ecological Information

12.1 Toxicity:

Aldehyde component:

Toxicity to fish	LC50 - Leuciscus idus (Golden orfe) - > 10.000 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition ErC50 - Desmodesmus subspicatus (green algae) - 370 mg/l - 72 h (OECD Test Guideline 201)

Other components no (test)data available

12.2 Persistence and degradability:

Readily biodegradable in water

12.3 Bio-accumulative potential:

Bioaccumulation: not applicable

12.4 Mobility in soil:

No (test)data available

12.5 Other adverse effects:

No (test)data available o data available. Do not discharge into open water.

Section 13 – Disposal considerations

The information in this section is a general description

13.1 Waste treatment methods:

13.1.1 Provisions relating to waste

Can be considered as hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Do not discharge into surface water.

13.1.3 Packaging/Container

Section 14 - Transport Information

This product is not subject to any transport regulations.

Section 15 - Classification and Regulatory Information

In accordance to current EC-Regulations this product is exempt from specific labeling requirements.

Section 16 - Other Information / Disclaimer

Full text of H-Statements referred to under sections 2 and 3.

EUH031 Contact with acids liberates toxic gas.

H341 Suspected of causing genetic defects.

Muta. Germ cell mutagenicity

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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