



EUROFIX COLOR™ SAFETY DATA SHEET

This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

1.1 Product Identifier: EUROFIX COLOR™

145750, 146750, 148750, 149750

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Solution for fixation/conservation of biological samples.

1.3 Details of the supplier of the Safety Data Sheet:

Apacor Limited, Unit 5 Sapphire Centre, Fishponds Road, Wokingham, Berkshire, RG41 2QL, England

+44 (0) 118 979 5566

technical@apacor.com

1.4 Emergency telephone number:

+44 (0)118 979 5566

(Monday-Friday 0900-1700 excluding UK Public Holidays)

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (gas) (Category 4), H332

Eye irritation, (Category 2), H319

See Section 16 for the full text of H-Statements mentioned in this Section.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]



Pictogram

Signal word

Danger

Hazard statement(s)

H302 - Harmful if swallowed

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

Precautionary statements:

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/ physician

P308 + P313 - IF exposed or concerned: Get medical advice/ attention

2.3 Other hazards

None.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component: **Ethanol**

CAS No: 64-17-5

EC No: 200-578-6

Index No: 603-002-00-5

Classification: Flam. Liq. 2 (H225), Eye Irrit. 2 (H319)

Concentration: <25%

Component: **Acetone**

CAS No: 67-64-1

EC No: 200-662-2

Index No: 606-001-00-8

Classification: Flam. Liq. 2 (H225), Eye Irrit. 2 (H319), STOT SE 3 (H336), EUH066

Concentration: <5%

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Consult a physician. Show this safety datasheet to the doctor in attendance.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

If swallowed: Clean mouth with water and drink afterwards plenty of water.

If inhaled: Move to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media (use media appropriate to the circumstances and environment): carbon dioxide (CO₂), water spray, alcohol-resistant foam, dry chemical.

5.2 Special hazards arising from the substance or mixture

Because of its flammability, the mixture can burn in the presence of an ignition source.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas. Keep away from ignition sources.

6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.



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6.3 Methods and material for containment and cleaning up

Absorb spill with inert material (eg dry sand or earth), then place in a chemical waste container. After cleaning, flush away traces with water.

6.4 Reference to other sections

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not breathe vapours or spray mist. Ensure that ventilation is adequate before using this product. Avoid contact with skin and eyes. Take necessary personal protective precautions before using this product. Keep away from heat and flame. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/precautions: Store in a tightly closed container. Store in a cool, dry, well-ventilated area.

Incompatible products: no information available.

7.3 Specific end use(s)

No other specific end uses(s) are specified apart from those listed in Section 1.2.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	Ethanol 64-17-5	Acetone 67-64-1
Austria	STEL: 2000 ppm STEL: 3800 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 2000 ppm STEL: 4800 mg/m ³ TWA: 500 ppm TWA: 1200 mg/m ³
Denmark	TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 500 ppm STEL: 1200 mg/m ³ TWA: 250 ppm TWA: 600 mg/m ³
European Union		TWA: 500 ppm TWA: 1210 mg/m ³
Finland	STEL: 1300 ppm STEL: 2500 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 630 ppm STEL: 1500 mg/m ³ TWA: 500 ppm TWA: 1200 mg/m ³
France	STEL: 5000 ppm STEL: 9500 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 1500 ppm STEL: 3620 mg/m ³ TWA: 500 ppm TWA: 1210 mg/m ³
Germany	TWA: 500 ppm TWA: 960 mg/m ³ Ceiling / Peak: 1000 ppm Ceiling / Peak: 1920 mg/m ³ Skin	STEL: 1000 ppm STEL: 2400 mg/m ³ TWA: 500 ppm TWA: 1210 mg/m ³
Ireland	STEL: 1000 ppm	TWA: 500 ppm TWA: 1200 mg/m ³
Italy		TWA: 500 ppm TWA: 1210 mg/m ³
Norway	STEL: 625 ppm STEL: 1187.5 mg/m ³ TWA: 500 ppm TWA: 950 mg/m ³	
Poland	TWA: 1900 mg/m ³	STEL: 1800 mg/m ³ TWA: 600 mg/m ³
Portugal	TWA: 1000 ppm	
Spain	STEL: 1000 ppm STEL: 1910 mg/m ³	TWA: 500 ppm TWA: 1210 mg/m ³
Switzerland	STEL: 1000 ppm STEL: 1920 mg/m ³ TWA: 500 ppm TWA: 960 mg/m ³	STEL: 1000 ppm STEL: 2400 mg/m ³ TWA: 500 ppm TWA: 1200 mg/m ³
The Netherlands	STEL: 1900 mg/m ³ TWA: 260 mg/m ³	STEL: 2420 mg/m ³ TWA: 1210 mg/m ³
UK	STEL: 3000 ppm STEL: 5760 mg/m ³ TWA: 1000 ppm TWA: 1920 mg/m ³	STEL: 1500 ppm STEL: 3620 mg/m ³ TWA: 500 ppm TWA: 1210 mg/m ³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering measures: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection: No special protective equipment required.

Hand protection: Wear appropriate protective gloves.

Eye protection: Wear tightly fitting safety goggles or safety glasses with side-shields.

Skin and body protection: Protective clothing to protect exposed skin.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls: No information available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) **Appearance:** Dark Red

b) **Odour:** pungent

c) **Odour threshold:** no information available

d) **pH:** no information available

e) **Melting point / freezing point:** no information available

f) **Initial boiling point and boiling range:** no information available

g) **Flash point:** 30°C

h) **Evaporation rate:** no information available

i) **Flammability (solid, gas):** no information available

j) **Upper/lower flammability or explosive limits:** no information available

k) **Vapour pressure:** no information available

l) **Vapour density:** no information available

m) **Relative density:** no information available

n) **Solubility (ies):** soluble in water

o) **Partition coefficient: n-octanol/water:** no information available

p) **Auto-ignition temperature:** no information available

q) **Decomposition temperature:** no information available

r) **Viscosity:** no information available

s) **Explosive properties:** no information available

t) **Oxidising properties:** no information available

9.2 **Other information:** no information available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

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10.2 Chemical stability

Stable under normal conditions. Do not freeze.

10.3 Possibility of hazardous reactions

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10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

No particular materials.



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10.6 Hazardous decomposition products

Under normal use – none.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information of toxicological effects

Acute toxicity: no data available

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethanol	7060mg/kg (Rat)		124.7mg/L (Rat) 4 h
Acetone	5800mg/kg (Rat)		76mg/L (Rat) 4 h

Skin corrosion/irritation: no data available

Serious eye damage/eye irritation: no data available

Respiratory or skin sensitisation: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity: no data available

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and other aquatic invertebrates
Ethanol		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static 10800: 24 h Daphnia magna mg/L EC50
Acetone		4.74 - 6.33: 96 h Oncorhynchus mykiss mL/L LC50 8300: 96 h Lepomis macrochirus mg/L LC50 6210 - 8120: 96 h Pimephales promelas mg/L LC50 static	12600 - 12700: 48 h Daphnia magna mg/L EC50 10294 - 17704: 48 h Daphnia magna mg/L EC50 Static

12.2 Persistence and degradability

No information available

Chemical Name	log Pow
Ethanol	-0.32
Acetone	-0.24

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

12.7 Additional information

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products: In accordance with local and national regulations. Should not be released into the environment.

Contaminated packaging: Empty containers should be disposed of at an approved waste handling site for recycling or disposal.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number: UN1993

14.2 UN proper shipping name: Flammable Liquid, n.o.s. (Ethanol, Acetone)

14.3 Transport hazard class(es): 3

14.4 Packing group: III

14.5 Environmental hazards

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not intended to be transported in bulk.

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Name	French RG number
Ethanol	RG 84
Acetone	RG 84

TSCA - Complies

EINECS/ELINCS -

DSL/NDSL -

PICCS -

ENCS -

IECSC -

AICS -

KECL -

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 AICS - Australian Inventory of Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical Safety Assessment

No information available

SECTION 16 OTHER INFORMATION

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

H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

EUH066 - Repeated exposure may cause skin dryness or cracking

The information supplied in this SDS is correct to the best of our knowledge. We do not accept any liability for loss, injury or damage, which may result from its use.