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

1.1 Product Identifier: SafEFix™ Colour ecological fixative 145085, 146035, 148932, 149932

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: Apacor Limited, Unit 5 Sapphire Centre, Fishponds Road, Wokingham, Berkshire, RG41 2QL, England; +44 (0) 118 979 5566; technical@apacor.com

1.4 Emergency Contact 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]
Eye Irrit. 2 H319
Environmental Hazards H413
This mixture does not present a physical or chemical hazard.
2.1.2 –
2.1.3 See Section 16 for the full text of R-Phrases and H-Statements mentioned in this Section.

2.2 Label elements
In compliance with EC regulation 1272/2008 and its amendments.

Pictogram: ☀
Signal word: WARNING
Hazard statement(s)
H317 May cause allergic reactions
Precautionary statement(s)
Hazardous ingredients according to Directive 67/548/EEC
R22, R38, R43, R51/53
S16, S22, S24, S25, S26, S27, S29, S33, S61, S62, S63, S64

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures
Hazardous ingredients according to Regulation (EC) No 1272/2008
Relevant substance: Organochloric ingredient, concentration in mixture < 1%. Labelling of the undiluted substance:
Organochloric ingredient GHS02, GHS06, GHS08, GHS09 H302, H311, H315, H319, H317, H361d, H411

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled: not applicable.
In case of skin contact: Remove contaminated clothing and wash the skin thoroughly with soap and water.
In case of eye contact: Wash thoroughly with water for 15 minutes holding the eyelids open.
If swallowed: Rinse mouth with water. Do not induce vomiting.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media
Suitable methods of extinction: foam, water. Do not use water jet.

5.2 Special hazards arising from the substance or mixture
None

5.3 Advice for firefighters
Wear self-contained breathing apparatus for firefighting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment, gloves and protective eye glasses.

6.2 Environmental precautions
Contain and control leaks or spills with non-combustible absorbent materials, such as sand etc.

6.3 Methods and material for containment and cleaning up
Clean with water, detergent.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities
Store in Polypropylene, Polyethylene or glass containers in dry, ventilated place at > 5°C.

7.3 Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.1 Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2 Personal protective equipment
(a) Eye/face protection: Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
SAFETY DATA SHEET
SafEFix™ Colour Ecological Fixative
This Safety Datasheet complies with the requirements of Regulation (EC) No 1907/2006 – 453/2010

(b) Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove’s outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves should satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

(c) Body Protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

d) Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.2.3 Environmental exposure controls
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties
a) Appearance
   Form: liquid (aqueous solution)
   Colour: light yellow
b) Odour
   no data available
c) Odour threshold
   no data available
d) pH
   3.5-4.5
e) Melting point / freezing point
   Freezing point: < 4°C (aqueous solution)
f) Initial boiling point and boiling range
   Boiling point: 100°C (aqueous solution)
g) Flash point
   no data available
h) Evaporation rate
   no data available
i) Flammability (solid, gas)
   no data available
j) Upper/lower flammability or explosive limits
   no data available
k) Vapour pressure
   no data available
l) Vapour density
   no data available
m) Relative density
   no data available
n) Solubility (ies)
   no data available
o) Partition coefficient: n-octanol/water
   no data available
p) Auto-ignition temperature
   no data available
q) Decomposition temperature
   no data available
r) Viscosity
   no data available
s) Explosive properties
   no data available
t) Oxidising properties
   no data available

9.2 Other information
No data available.

SECTION 10: STABILITY AND REACTIVITY
10.1 Reactivity
No data available.

10.2 Chemical stability
Stable under recommended handling and storage conditions in Section 7.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
No data available.

10.5 Incompatible materials
No data available.

10.6 Hazardous decomposition products
Other decomposition products – no data available.

SECTION 11: TOXICOLOGICAL INFORMATION
11.1 Information of toxicological effects
Acute toxicity
   no data available
Skin corrosion/irritation
   May cause an allergic reaction by skin contact.
Serious eye damage/eye irritation
   May cause mild irritation to eyes (rabbit, tests with similar product).
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
No data available for the mixture.

12.2 Persistence and degradability
No data available for the mixture.

12.3 Bioaccumulative potential
No data available for the mixture.

12.4 Mobility in soil
No data available for the mixture.

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects
No data available for the mixture.

12.7 Additional information
No data available for the mixture.

SECTION 13: DISPOSAL CONSIDERATIONS
Proper waste management of the mixture and its container must be determined in accordance with directive 2008/98/EC.
13.1 Waste treatment methods
13.1.1 Product/packaging disposal
Do not pour into drains or waterways. Recycle or dispose of waste in compliance with current, local legislation, preferably via a certified disposal company.

SECTION 14: TRANSPORT INFORMATION
14.1 UN number: -
14.2 UN proper shipping name Not dangerous goods
14.3 Transport hazard class(es): -
14.4 Packing group: -
14.5 Environmental hazards: No
14.6 Special precautions for user: no data available
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
15.1.1 EU regulations
Authorisations and/or restrictions on use: Consult the supplier.
15.1.2 National regulations
15.2 Chemical Safety Assessment: A chemical safety assessment was not carried out for this mixture.

SECTION 16: OTHER INFORMATION
The information in this datasheet is based on our current level of knowledge and on national and international regulations. The mixture must not be used for other purposes than those specified in Section 1. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Description of H, R, P and S indications mentioned in Section 3:
H302 Harmful if swallowed
H311 Toxic in contact with skin
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H361d Suspected of damaging fertility or the unborn child
H411 Toxic to aquatic life with long lasting effects
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P264 Wash thoroughly after handling
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 IF ON SKIN: wash with soap and water.

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes; remove contact lenses if present and easy to do. Continue rinsing
P308+P313 IF exposed or concerned: get medical advice/attention
P391 Collect spillage
P405 Store locked up
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.
R22 Harmful if swallowed.
R38 Irritating to skin
R43 May cause sensitisation by skin contact
R51/53 Toxic to aquatic organisms/may cause long-term adverse effects in the aquatic environment
S16 Keep away from sources of ignition - No smoking
S22 Do not breathe dust
S24 Avoid contact with skin
S25 Avoid contact with eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S27 Take off immediately all contaminated clothing
S29 Do not empty into drains
S33 Take precautionary measures against static discharges
S61 Avoid release to the environment. Refer to special instructions/safety data sheet
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label where possible
S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest
S64 If swallowed, rinse mouth with water (only if the person is conscious)

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. Apacor shall not be held liable for any damages resulting from handling or from contact with the above product, since the user’s working conditions are not known by Apacor.