

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: MIF / MIF Colour 1465, 148935

1.2 Relevant identified uses of the substance or mixture and uses advised against: laboratory chemical (in vitro diagnostic)

# 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 Classification according to Regulation (EC) No 1272/2008 [CLP]: Acute toxicity, Oral (Category 4), H302 Skin sensitisation (Category 1), H317 Acute toxicity, Inhalation (Category 4), H332 Germ cell mutagenicity (Category 2), H341 Carcinogenicity (Category 1B), H350

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 H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H341 Suspected of causing genetic defects H350 May cause cancer Contains Formaldehyde.

# **Precautionary statements:**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

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

# 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS 3.2 Mixtures

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

Component: Formaldehyde CAS No: 50-00-0 EC No: 200-001-8 Index No: 605-001-00-5 Classification: Acute Tox. 3 (H301 + H311 + H331), Skin Corr. 1B (H314), Skin Sens. 1 (H317), Muta. 2 (H341), Carc. 1B (H350) Concentration: < 5%

# Component: Methanol

CAS No: 67-56-1 EC No: 200-659-6 Index No: 603-001-00-x Registration No: 01-2119433307-44-xxxx Classification: Flam. Liq. 2 (H225); Acute Tox. 3 (H301 + H311 + H331); STOT SE 1 H370 Concentration: < 1%

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

# 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:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

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

**If swallowed:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

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

4.3 Indication of any immediate medical attention and special treatment needed No data available.

#### **SECTION 5 FIRE FIGHTING MEASURES**

# 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcoholresistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture** Carbon oxides

# 5.3 Advice for firefighters

Wear self-contained breathing apparatus and full protective gear.



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# SECTION 6 ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see Section 8.

## 6.2 Environmental precautions

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

# 6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect and place in container for disposal according to local regulations (see Section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal, see Section 13.

#### SECTION 7 HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition—no smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see Section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 7.3 Specific end use(s)

No other specific uses are specified apart from those listed in Section 1.2.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1 Control parameters

Exposure limits: this product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

|         | Formaldehyde<br>50-00-0      | Methanol<br>67-56-1          |
|---------|------------------------------|------------------------------|
| Austria | STEL: 0.5 ppm                | STEL: 800 ppm                |
|         | STEL: 0.6 mg/m <sup>3</sup>  | STEL: 1040 mg/m <sup>3</sup> |
|         | TWA: 0.5 ppm                 | TWA: 200 ppm                 |
|         | TWA: 0.6 mg/m <sup>3</sup>   | TWA: 260 mg/m <sup>3</sup>   |
| Belgium | STEL: 0.3 ppm                | STEL: 250 ppm                |
|         | STEL: 0.38 mg/m <sup>3</sup> | STEL: 333 mg/m <sup>3</sup>  |
|         |                              | TWA: 200 ppm                 |
|         |                              | TWA: 266 mg/m <sup>3</sup>   |
| Denmark | STEL: 0.3 ppm                | STEL: 400 ppm                |
|         | STEL: 0.4 mg/m <sup>3</sup>  | STEL: 520 mg/m <sup>3</sup>  |
|         | TWA: 0.3 ppm                 | TWA: 200 ppm                 |
|         | TWA: 0.4 mg/m <sup>3</sup>   | TWA: 260 mg/m <sup>3</sup>   |
| France  | TWA: 0.5 ppm                 | STEL: 1000 ppm               |
|         | STEL: 1 ppm                  | STEL: 1300 mg/m <sup>3</sup> |
|         |                              | TWA: 200 ppm                 |
|         |                              | TWA: 260 mg/m <sup>3</sup>   |
| Germany | STEL: 0.6 ppm                | STEL: 800 ppm                |
|         | STEL: 0.74 mg/m <sup>3</sup> | STEL: 1080 mg/m <sup>3</sup> |
|         | TWA: 0.3 ppm                 | TWA: 200 ppm                 |
|         | TWA: 0.37 mg/m <sup>3</sup>  | TWA: 270 mg/m <sup>3</sup>   |

|                 | Formaldehyde                 | Methanol                    |
|-----------------|------------------------------|-----------------------------|
|                 | 50-00-0                      | 67-56-1                     |
| Ireland         | STEL: 2 ppm                  | TWA: 200 ppm                |
|                 | STEL: 2.5 mg/m <sup>3</sup>  | TWA: 260 mg/m <sup>3</sup>  |
|                 | TWA: 2 ppm                   |                             |
|                 | TWA: 2.5 mg/m <sup>3</sup>   |                             |
| Italy           |                              | TWA: 200 ppm                |
|                 |                              | TWA: 260 mg/m <sup>3</sup>  |
| Poland          | STEL: 1 mg/m <sup>3</sup>    | STEL: 300 mg/m <sup>3</sup> |
|                 | TWA: 0.5 mg/m <sup>3</sup>   | TWA: 100 mg/m <sup>3</sup>  |
| Portugal        | STEL: 0.3 ppm                | STEL : 250 ppm              |
|                 |                              | TWA : 200 ppm               |
|                 |                              | TWA : 260 mg/m <sup>3</sup> |
| Spain           | STEL: 0.3 ppm                | STEL: 250 ppm               |
|                 | STEL: 0.37 mg/m <sup>3</sup> | STEL: 333 mg/m <sup>3</sup> |
|                 |                              | TWA: 200 ppm                |
|                 |                              | TWA: 266 mg/m <sup>3</sup>  |
| Sweden          | STEL: 0.6 ppm                | STEL: 250 ppm               |
|                 | STEL: 0.74 mg/m <sup>3</sup> | STEL: 350 mg/m <sup>3</sup> |
|                 | TWA: 0.3 ppm                 | TWA: 200 ppm                |
|                 | TWA: 0.37 mg/m <sup>3</sup>  | TWA: 250 mg/m <sup>3</sup>  |
| The Netherlands | STEL: 0.5 mg/m <sup>3</sup>  | TWA: 133 mg/m <sup>3</sup>  |
|                 | TWA: 0.15 mg/m <sup>3</sup>  |                             |
| UK              | STEL: 2 ppm                  | STEL: 250 ppm               |
|                 | STEL: 2.5 mg/m <sup>3</sup>  | STEL: 333 mg/m <sup>3</sup> |
|                 | TWA: 2 ppm                   | TWA: 200 ppm                |
|                 | TWA: 2.5 mg/m <sup>3</sup>   | TWA: 266 mg/m <sup>3</sup>  |

#### 8.2 Exposure controls

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. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

(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 airpurifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (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.



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# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

- a) Appearance Form: liquid
- **b) Odour** no data available
- c) Odour threshold no data available
- d) pH no data available
- e) Melting point / freezing point no data available
- f) Initial boiling point and boiling range 100°C at 1.013 hPa
- g) Flash point 85°C
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available

## j) Upper/lower flammability or explosive limits

Upper 70% (V), Lower 7% (V)

- k) Vapour pressure 53hPa at 39°C
- I) Vapour density no data available
- m) Relative density 1.080g/cm<sup>3</sup>
- n) Solubility (ies) completely miscible
- 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 storage conditions.

#### **10.3 Possibility of hazardous reactions** No data available.

**10.4 Conditions to avoid** Heat, flames and sparks.

**10.5 Incompatible materials** No materials to be mentioned in particular.

**10.6 Hazardous decomposition products** Carbon oxides.

## SECTION 11 TOXICOLOGICAL INFORMATION 11.1 Information of toxicological effects

Acute toxicity: no data available 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: IARC: 1 - Group 1: Carcinogenic to humans (Formaldehyde) 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

## **Additional Information**

| Chemical Name |   |
|---------------|---|
| Formaldehyde  | LD50 oral 600mg/kg (Rat)                  |
|               | LD50 dermal 270mg/kg (Rabbit)             |
|               | LC50 inhalation 0.578 mg/L (Rat) 4 h      |
| Methanol      | LD50 oral - rat - 5628 mg/kg              |
|               | LC50 inhalation - rat - 4h – 83.2 mg/l/4h |
| Thimerosal    | LD50 oral – rat – 98mg/kg                 |
|               |   |

# SECTION 12 ECOLOGICAL INFORMATION

# 12.1 Toxicity

Ecotoxicity effects: contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

| Toxicity to Fish |  |
|------------------|--|
| Formaldehyde     | 0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50<br>flow-through 100- 136: 96 h Oncorhynchus mykiss<br>mg/L LC50 static 1510: 96 h Lepomis macrochirus<br>µg/L LC50 static 22.6 - 25.7: 96 h Pimephales<br>promelas mg/L LC50 flow-through 23.2 - 29.7: 96 h<br>Pimephales promelas mg/L LC50 static 41: 96 h<br>Brachydanio rerio mg/L LC50 static |
| Methanol         | LC50 - Pimephales promelas – 28200 mg / L 96h  |
|                  |  |

# Toxicity to Daphnia and other Aquatic Invertebrates Formaldehyde 11.3 - 18: 48 h Daphnia magna mg/L EC50 Static 2: 48 h Daphnia magna mg/L LC50 Methanol EC50 - Daphnia magna ->10000 mg/l

# 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

| Chemical Name | log Pow |  |
|---------------|---------|--|
| Formaldehyde  | 0.35    |  |
| Methanol      | -0.77   |  |

#### 12.4 Mobility in soil

No data available.

# 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects** No data available.

**12.7 Additional information** None.

# SECTION 13 DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods

**Product:** Dispose of in accordance with all federal, state, and local regulations. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

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# SECTION 14 TRANSPORT INFORMATION

IATA/DOT/ICAO: not regulated

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** No data available.

# **15.2 Chemical Safety Assessment**

No chemical safety assessment has been carried out for this product.

# SECTION 16 OTHER INFORMATION Full text of H-Statements referred to in Sections 2 and 3

H225 Highly flammable liquid and vapour.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H370 Causes damage to organs.

Acute Tox. Acute toxicity

Carc. Carcinogenicity

Flam. Liq. Flammable liquids

Muta. Germ cell mutagenicity.

Skin Corr. Skin corrosion

Skin Sens. Skin sensitisation

STOT SE Specific target organ toxicity - single exposure

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.