# KIT COMPONENTS

**Product name:** Performance Evaluation kit, Pipettor - Washer  
**Product code:** 89894

<table>
<thead>
<tr>
<th>Article number</th>
<th>Description</th>
<th>Quantity</th>
<th>Symbols</th>
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<td>8989T</td>
<td>Empty 15 ml vial</td>
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<td>8989N</td>
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<td>GHS07</td>
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<tr>
<td>8989P</td>
<td>C1 - Color Solution C1, 2ml</td>
<td>3</td>
<td>GHS07</td>
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<td>C2 - Color Solution C2, 2ml</td>
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<td>GHS07</td>
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<tr>
<td>8989R</td>
<td>C3 - Color Solution C3, 10ml</td>
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<td>8989S</td>
<td>C4 - Color Solution C4, 10ml</td>
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<td>GHS07</td>
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
   - Trade name: Microplate (empty), 8 x 15
   - Article number: 563270

1.2 Relevant identified uses of the substance or mixture and uses advised against
   - Application of the substance / the mixture: In vitro diagnostic medical device or component.

1.3 Details of the supplier of the safety data sheet
   - Manufacturer/Supplier: Bio-Rad
     3, Boulevard Raymond Poincaré
     F-92430 Marnes-la-Coquette
     Tel.: +33 (0)1 47 95 60 00
     Fax: +33 (0)1 47 41 91 33
     e-mail: fds-msds.fr@bio-rad.com
   - Further information obtainable from: Customer Support.

1.4 Emergency telephone number: See item 16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   - Classification according to Regulation (EC) No 1272/2008
     The product is not classified according to the CLP regulation.

2.2 Label elements
   - Labelling according to Regulation (EC) No 1272/2008: Void
     - Hazard pictograms: Void
     - Signal word: Void
     - Hazard statements: Void

2.3 Other hazards
   - Results of PBT and vPvB assessment
     - PBT: Not applicable.
     - vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
   - Description: Mixture without a chemical hazard.
   - Dangerous components: Void
   - Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
   - General information: No special measures required.
   - After inhalation: Supply fresh air; consult doctor in case of complaints.
   - After skin contact: Immediately wash with water and soap and rinse thoroughly.
   - After eye contact: Rinse opened eye for several minutes under running water.
   - After swallowing: Consult a doctor, if necessary.

(Contd. on page 2)
SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  · Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.
- 5.2 Special hazards arising from the substance or mixture
  No further relevant information available.
- 5.3 Advice for firefighters
  · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  Wear disposable gloves.
- 6.2 Environmental precautions:
  Do not allow product to reach sewage system or any water course.
- 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- 6.4 Reference to other sections
  No dangerous substances are released.
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
  Prevent formation of dust.
  Avoid all contact with reagents, even those considered to be non-hazardous.
  Follow good laboratory practices.
  · Information about fire - and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles: No special requirements.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
  · Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Trade name: Microplate (empty), 8 x 15

(Contd. of page 2)

· Additional information: The lists valid during the making were used as basis.
· Personal protective equipment:
  · General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
  · Respiratory protection: Suitable respiratory protective device recommended.
  · Protection of hands: Protective gloves
  · Eye protection: Safety glasses

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
  · General Information
    · Appearance:
      · Form: Solid
      · Colour: Colourless
      · Odour: Odourless
  · Change in condition
    · Boiling point/Boiling range: Undetermined.
  · Flash point: Not applicable.
  · Danger of explosion: Product does not present an explosion hazard.
  · Density: Not determined.
  · Solubility in / Miscibility with
    · water: Insoluble.
  · Solvent content:
    · Organic solvents: 0.0 %
· 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity
· 10.2 Chemical stability
  · Thermal decomposition / conditions to be avoided:
    No decomposition if used according to specifications.
· 10.3 Possibility of hazardous reactions No dangerous reactions known.
· 10.4 Conditions to avoid No further relevant information available.
· 10.5 Incompatible materials: No further relevant information available.
· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects
  · Acute toxicity
    · Primary irritant effect:
      · Skin corrosion/irritation No irritant effect.
      · Serious eye damage/irritation No irritating effect.
Trade name: Microplate (empty), 8 x 15

- Respiratory or skin sensitisation: No sensitising effects known.
- Additional toxicological information:
  The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes: Generally not hazardous for water
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation:
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - Uncleaned packaging:
    - Recommendation: Disposal must be made according to official regulations.
    - Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA: Void
- 14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA: Void
- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA: Void
- 14.4 Packing group
  - ADR, IMDG, IATA: Void
- 14.5 Environmental hazards:
  - Marine pollutant: No
### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - No further relevant information available.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:**
  - MSDS / FDS Administr.
  - Bio-Rad
  - Marnes-la-Coquette, France

- **Contact:**
  - UNITED KINGDOM
  - Bio-Rad Laboratories Ltd.
  - Bio-Rad House, Maxted Road, Hemel Hempstead, Hertfordshire HP2 7DX
  - Phone: +44-20-8328-2000
  - Fax: +44-20-8328-2550

- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
   · Trade name: Empty 15 ml vial
   · Article number: 8989T

1.2 Relevant identified uses of the substance or mixture and uses advised against
   No further relevant information available.
   · Application of the substance / the mixture: In vitro diagnostic medical device or component.

1.3 Details of the supplier of the safety data sheet
   · Manufacturer/Supplier:
     Bio-Rad
     3, Boulevard Raymond Poincaré
     F-92430 Marnes-la-Coquette
     Tel.: +33 (0)1 47 95 60 00
     Fax: +33 (0)1 47 41 91 33
     e-mail: fds-msds.fr@bio-rad.com
   · Further information obtainable from: Customer Support.

1.4 Emergency telephone number: See item 16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   · Classification according to Regulation (EC) No 1272/2008
     The product is not classified according to the CLP regulation.

2.2 Label elements
   · Labelling according to Regulation (EC) No 1272/2008 Void
     · Hazard pictograms: Void
     · Signal word: Void
     · Hazard statements: Void

2.3 Other hazards
   · Results of PBT and vPvB assessment
     · PBT: Not applicable.
     · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
   · Description: Mixture without a chemical hazard.
   · Dangerous components: Void
   · Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
   · General information: No special measures required.
   · After inhalation: Supply fresh air; consult doctor in case of complaints.
   · After skin contact: Immediately wash with water and soap and rinse thoroughly.
   · After eye contact: Rinse opened eye for several minutes under running water.
   · After swallowing: Consult a doctor, if necessary.
Trade name: Empty 15 ml vial

4.2 Most important symptoms and effects, both acute and 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: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear disposable gloves.

6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Prevent formation of dust.
Avoid all contact with reagents, even those considered to be non-hazardous.
Follow good laboratory practices.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Trade name: Empty 15 ml vial

- Additional information: The lists valid during the making were used as basis.
- Personal protective equipment:
  - General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
  - Respiratory protection: Not required.
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  - Eye protection: Not required.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Form: Solid
    - Colour: Not determined.
    - Odour: Uncharacteristic.
  - Change in condition
    - Boiling point/Boiling range: Undetermined.
  - Flash point: Not applicable.
  - Danger of explosion: Product does not present an explosion hazard.
  - Density: Not determined.
  - Solubility in / Miscibility with
    - water: Insoluble.
  - Solvent content:
    - Organic solvents: 0.0 %
  - 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided:
    No decomposition if used according to specifications.
  - 10.3 Possibility of hazardous reactions No dangerous reactions known.
  - 10.4 Conditions to avoid No further relevant information available.
  - 10.5 Incompatible materials: No further relevant information available.
  - 10.6 Hazardous decomposition products: No dangerous decomposition products known.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity
  - Primary irritant effect:
    - Skin corrosion/irritation: No irritant effect.
    - Serious eye damage/irritation: No irritating effect.
    - Respiratory or skin sensitisation: No sensitising effects known.

Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water.

12.5 Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-Number

- ADR, ADN, IMDG, IATA: Void

14.2 UN proper shipping name

- ADR, ADN, IMDG, IATA: Void
Trade name: Empty 15 ml vial

- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA
    - Class: Void

- 14.4 Packing group
  - ADR, IMDG, IATA
    - Void

- 14.5 Environmental hazards:
  - Marine pollutant: No

- 14.6 Special precautions for user
  - Not applicable.

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - Not dangerous according to the above specifications.

- UN "Model Regulation": -

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - No further relevant information available.

- 15.2 Chemical safety assessment:
  - A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS:
  - MSDS / FDS Administr.
  - Bio-Rad
  - Marnes-la-Coquette, France

- Contact:

  UNITED KINGDOM
  Bio-Rad Laboratories Ltd.
  Bio-Rad House, Maxted Road,
  Hemel Hempstead, Hertfordshire HP2 7DX

  Phone: +44-20-8328-2000
  Fax: +44-20-8328-2550

- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: C0 - Color Solution C0, 14 ml
- Article number: 8989N

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the mixture: In vitro diagnostic medical device or component.

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Bio-Rad
  3, Boulevard Raymond Poincaré
  F-92430 Marnes-la-Coquette
  Tel.: +33 (0)1 47 95 60 00
  Fax: +33 (0)1 47 41 91 33
  e-mail: fds-msds.fr@bio-rad.com
- Further information obtainable from: Customer Support.

1.4 Emergency telephone number: See item 16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  GHS07
  Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
  - Hazard pictograms: GHS07
  - Signal word: Warning

  - Hazard-determining components of labelling:
    reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

  - Hazard statements
    H317 May cause an allergic skin reaction.

  - Precautionary statements
    P280 Wear protective gloves/protective clothing/eye protection/face protection.
    P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
    P302+P352 IF ON SKIN: Wash with plenty of water and soap.
    P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
- Description: Preparation containing hazardous components.
- Dangerous components:

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- Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
- After inhalation:
  Supply fresh air and to be sure call for a doctor.
  In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
- After eye contact:
  Rinse opened eye for several minutes under running water.
- After swallowing:
  Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and 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: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Wear disposable gloves.

6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

(Contd. on page 3)
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Follow good laboratory practices.
  - Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
  - Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists valid during the making were used as basis.
  - Personal protective equipment:
  - General protective and hygienic measures:
    Immediately remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
  - Respiratory protection: Suitable respiratory protective device recommended.
  - Protection of hands: Protective gloves
  - Eye protection: Goggles recommended during refilling

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Fluid
      - Colour: Yellow
    - Odour: Weak, characteristic
    - Odour threshold: Not determined.
  - Change in condition
    - Melting point/Melting range: Undetermined.
    - Boiling point/Boiling range: Undetermined.
SECTION 10: Stability and reactivity

· 10.1 Reactivity
· 10.2 Chemical stability
  · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
· 10.3 Possibility of hazardous reactions No dangerous reactions known.
· 10.4 Conditions to avoid No further relevant information available.
· 10.5 Incompatible materials: No further relevant information available.
· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects
  · Acute toxicity
    · Primary irritant effect:
      · Skin corrosion/irritation No irritant effect.
      · Serious eye damage/irritation No irritating effect.
    · Respiratory or skin sensitisation Sensitisation possible through skin contact.
  · Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

SECTION 12: Ecological information

· 12.1 Toxicity
  · Aquatic toxicity: No further relevant information available.
· 12.2 Persistence and degradability No further relevant information available.
· 12.3 Bioaccumulative potential No further relevant information available.
· 12.4 Mobility in soil No further relevant information available.
  · Additional ecological information:
    · General notes: Generally not hazardous for water
Trade name: C0 - Color Solution C0, 14 ml

- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - Uncleaned packaging:
    - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA Void
- 14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA Void
  - Class Void
- 14.4 Packing group
  - ADR, IMDG, IATA Void
- 14.5 Environmental hazards:
  - Marine pollutant: No
- 14.6 Special precautions for user Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.
  - UN "Model Regulation": -

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  No further relevant information available.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 6)
**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 05.08.2015  
Revision: 02.07.2015  
Version number 2

**Trade name:** C0 - Color Solution C0, 14 ml

<table>
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<th>Relevant phrases</th>
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<tr>
<td>H301 Toxic if swallowed.</td>
</tr>
<tr>
<td>H311 Toxic in contact with skin.</td>
</tr>
<tr>
<td>H314 Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>H317 May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H331 Toxic if inhaled.</td>
</tr>
<tr>
<td>H400 Very toxic to aquatic life.</td>
</tr>
<tr>
<td>H410 Very toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

**Department issuing MSDS:**
MSDS / FDS Administr.  
Bio-Rad  
Marnes-la-Coquette, France

**Contact:**
UNITED KINGDOM  
Bio-Rad Laboratories Ltd.  
Bio-Rad House, Maxted Road,  
Hemel Hempstead, Hertfordshire HP2 7DX

Phone : +44-20-8328-2000  
Fax : +44-20-8328-2550

**Abbreviations and acronyms:**
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- Acute Tox. 3: Acute toxicity, Hazard Category 3
- Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
**SECTIOn 1: Identification of the substance/mixture and of the company/undertaking**

1.1 Product identifier
- Trade name: C1 - Color Solution C1, 2ml
- Article number: 8989P

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the mixture In vitro diagnostic medical device or component.

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Bio-Rad
  3, Boulevard Raymond Poincaré
  F-92430 Marnes-la-Coquette
  Tel.: +33 (0)1 47 95 60 00
  Fax: +33 (0)1 47 41 91 33
  e-mail: fds-msds.fr@bio-rad.com
- Further information obtainable from: Customer Support.

1.4 Emergency telephone number: See item 16

**SECTIOn 2: Hazards identification**

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  GHS07
  Skin Sens. 1  H317  May cause an allergic skin reaction.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
  - Hazard pictograms GHS07
  - Signal word Warning
  - Hazard-determining components of labelling: reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
  - Hazard statements
    H317 May cause an allergic skin reaction.
  - Precautionary statements
    P280 Wear protective gloves/protective clothing/eye protection/face protection.
    P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
    P302+P352 IF ON SKIN: Wash with plenty of water and soap.
    P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
   - Description: Preparation containing hazardous components.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
<th>CAS: 55965-84-9</th>
<th>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</th>
<th>&lt;0.01%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index number: 613-167-00-5</td>
<td></td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331</td>
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<tr>
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<td></td>
<td>Skin Corr. 1B, H314</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400; Aquatic Chronic 1, H410</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
<td></td>
</tr>
</tbody>
</table>

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
   - After inhalation: Supply fresh air and to be sure call for a doctor.
     In case of unconsciousness place patient stably in side position for transportation.
   - After skin contact: Immediately wash with water and soap and rinse thoroughly.
   - After eye contact: Rinse opened eye for several minutes under running water.
   - After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and 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: Firefighting measures

5.1 Extinguishing media
   - Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture
   No further relevant information available.

5.3 Advice for firefighters
   - Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   Wear protective clothing.
   Wear disposable gloves.

6.2 Environmental precautions:
   Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:
   Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
   Ensure adequate ventilation.
SECTION 7: Handling and storage

· 7.1 Precautions for safe handling
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.
  Follow good laboratory practices.
  Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities
  Storage:
  · Requirements to be met by storerooms and receptacles: No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: None.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters
  · Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  · Additional information: The lists valid during the making were used as basis.

· Personal protective equipment:
  · General protective and hygienic measures:
    Immediately remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
  · Respiratory protection: Suitable respiratory protective device recommended.
  · Protection of hands: Protective gloves
  · Eye protection: Safety glasses

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
  · General Information
    · Appearance:
      · Form: Fluid
      · Colour: Orange
    · Odour: Weak, characteristic
    · Odour threshold: Not determined.

· Change in condition
  · Melting point/Melting range: Undetermined.
  · Boiling point/Boiling range: Undetermined.
Trade name: C1 - Color Solution C1, 2ml

- Flash point: Not applicable.
- Self-igniting: Product is not self-igniting.
- Danger of explosion: Product does not present an explosion hazard.
- Density: Not determined.
- Solubility in / Miscibility with water: Fully miscible.
- Solvent content:
  - Organic solvents: 0.0 %
- 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity
    - Primary irritant effect:
      - Skin corrosion/irritation No irritant effect.
      - Serious eye damage/irritation No irritating effect.
    - Respiratory or skin sensitisation Sensitisation possible through skin contact.
  - Additional toxicological information:
    The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    Irritant

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
  - Additional ecological information:
    - General notes: Generally not hazardous for water
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.

(Contd. on page 5)
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: C1 - Color Solution C1, 2ml

· vPvB: Not applicable.
· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods
  · Recommendation
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  · Uncleaned packaging:
    · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number
  · ADR, ADN, IMDG, IATA Void
· 14.2 UN proper shipping name
  · ADR, ADN, IMDG, IATA Void
· 14.3 Transport hazard class(es)
  · ADR, ADN, IMDG, IATA
    · Class Void
· 14.4 Packing group
  · ADR, IMDG, IATA Void
· 14.5 Environmental hazards:
  · Marine pollutant: No
· 14.6 Special precautions for user Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  · UN "Model Regulation": -

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  No further relevant information available.
· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases
  H301 Toxic if swallowed.

(Contd. of page 4)
Trade name: C1 - Color Solution C1, 2ml

H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing MSDS:**
  MSDS / FDS Administr.
  Bio-Rad
  Marnes-la-Coquette, France

- **Contact:**
  UNITED KINGDOM
  Bio-Rad Laboratories Ltd.
  Bio-Rad House, Maxted Road,
  Hemel Hempstead, Hertfordshire HP2 7DX

  Phone: +44-20-8328-2000
  Fax: +44-20-8328-2550

- **Abbreviations and acronyms:**
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  Acute Tox. 3: Acute toxicity, Hazard Category 3
  Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
  Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
  Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
  Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name: C2 - Color Solution C2, 2ml
- Article number: 8989Q

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

No further relevant information available.

Application of the substance / the mixture In vitro diagnostic medical device or component.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Bio-Rad
3, Boulevard Raymond Poincaré
F-92430 Marnes-la-Coquette
Tel.: +33 (0)1 47 95 60 00
Fax: +33 (0)1 47 41 91 33
e-mail: fds-msds.fr@bio-rad.com

Further information obtainable from: Customer Support.

1.4 Emergency telephone number: See item 16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

\[ \text{GHS07} \]

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

- Hazard pictograms GHS07
- Signal word Warning

- Hazard-determining components of labelling:

  reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-
  -isothiazol-3-one [EC no. 220-239-6] (3:1)

- Hazard statements

  H317 May cause an allergic skin reaction.

- Precautionary statements

  P280 Wear protective gloves/protective clothing/eye protection/face protection.
  P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  P302+P352 IF ON SKIN: Wash with plenty of water and soap.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment

  PBT: Not applicable.
  vPvB: Not applicable.
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
   · Description: Preparation containing hazardous components.
   · Dangerous components:
     - CAS: 55965-84-9
       - Index number: 613-167-00-5
       - Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
       - Dangerous Components:
         - Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331
         - Skin Corr. 1B, H314
         - Aquatic Acute 1, H400; Aquatic Chronic 1, H410
         - Skin Sens. 1, H317
         - <0.01%

   · Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
   - After inhalation: Supply fresh air and to be sure call for a doctor.
   - In case of unconsciousness place patient stably in side position for transportation.
   - After skin contact: Immediately wash with water and soap and rinse thoroughly.
   - After eye contact: Rinse opened eye for several minutes under running water.
   - After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and 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: Firefighting measures

5.1 Extinguishing media
   - Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture
   No further relevant information available.

5.3 Advice for firefighters
   - Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   - Wear protective clothing.
   - Wear disposable gloves.

6.2 Environmental precautions:
   - Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:
   - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
   - Ensure adequate ventilation.
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Follow good laboratory practices.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to
be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:
General protective and hygienic measures:
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or
longer exposure use self-contained respiratory protective device.

Protection of hands:
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the
preparation.

Eye protection: Goggles recommended during refilling

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information
Appearance:
Form: Fluid
Colour: Light orange colour
Odour: Weak, characteristic
Trade name: C2 - Color Solution C2, 2ml

- Odour threshold: Not determined.
- Change in condition
  - Boiling point/Boiling range: Undetermined.
- Flash point: Not applicable.
- Danger of explosion: Product does not present an explosion hazard.
- Density: Not determined.
- Solubility in / Miscibility with
  - water: Fully miscible.
- 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity
    - Primary irritant effect:
      - Skin corrosion/irritation No irritant effect.
      - Serious eye damage/irritation No irritating effect.
    - Respiratory or skin sensitisation Sensitisation possible through skin contact.
  - Additional toxicological information:
    - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
      - Irritant

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
  - Additional ecological information:
    - General notes: Generally not hazardous for water
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
SECTION 13: Disposal considerations

13.1 Waste treatment methods
- Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
  - ADR, ADN, IMDG, IATA: Void

14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA: Void

14.3 Transport hazard class(es)
  - ADR, ADN, IMDG, IATA
    - Class: Void

14.4 Packing group
  - ADR, IMDG, IATA: Void

14.5 Environmental hazards:
  - Marine pollutant: No

14.6 Special precautions for user
  - Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - UN "Model Regulation": -

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - No further relevant information available.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  H301 Toxic if swallowed.
  H311 Toxic in contact with skin.

(Contd. of page 4)

GB
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: C2 - Color Solution C2, 2ml

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Department issuing MSDS:
MSDS / FDS Administr.
Bio-Rad
Marnes-la-Coquette, France

Contact:
UNITED KINGDOM
Bio-Rad Laboratories Ltd.
Bio-Rad House, Maxted Road,
Hemel Hempstead, Hertfordshire HP2 7DX

Phone: +44-20-8328-2000
Fax: +44-20-8328-2550

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning
the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
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Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: C3 - Color Solution C3, 10ml
- Article number: 8989R

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the mixture
In vitro diagnostic medical device or component.

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Bio-Rad
  3, Boulevard Raymond Poincaré
  F-92430 Marnes-la-Coquette
  Tel.: +33 (0)1 47 95 60 00
  Fax: +33 (0)1 47 41 91 33
  e-mail: fds-msds.fr@bio-rad.com
- Further information obtainable from: Customer Support.

1.4 Emergency telephone number: See item 16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

! GHS07
Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
  - Hazard pictograms GHS07
  - Signal word Warning

- Hazard-determining components of labelling:
  reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
- Hazard statements
  H317 May cause an allergic skin reaction.
  - Precautionary statements
    P280 Wear protective gloves/protective clothing/eye protection/face protection.
    P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
    P302+P352 IF ON SKIN: Wash with plenty of water and soap.
    P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

• Description: Preparation containing hazardous components.

• Dangerous components:

<table>
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<tr>
<th>CAS: 55965-84-9 Index number: 613-167-00-5</th>
<th>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)</th>
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<td></td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331</td>
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<td></td>
</tr>
</tbody>
</table>

• Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

• After inhalation:
  Supply fresh air and to be sure call for a doctor.
  In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:
  Immediately wash with water and soap and rinse thoroughly.

• After eye contact:
  Rinse opened eye for several minutes under running water.

• After swallowing:
  Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and 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: Firefighting measures

5.1 Extinguishing media

• Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

• Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing.
Wear disposable gloves.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

(Contd. of page 1)
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Follow good laboratory practices.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

Personal protective equipment:

General protective and hygienic measures:
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.

Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:
Protective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Eye protection: Goggles recommended during refilling

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance: Fluid
Form: Light
Colour: Weak, characteristic
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.08.2015
Revision: 02.07.2015
Version number 2

Trade name: C3 - Color Solution C3, 10ml

(Contd. of page 3)

- Odour threshold: Not determined.
- Change in condition
  - Boiling point/Boiling range: Undetermined.
- Flash point: Not applicable.
- Danger of explosion: Product does not present an explosion hazard.
- Density: Not determined.
- Solubility in / Miscibility with water: Fully miscible.
- 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
  - Acute toxicity
    - Primary irritant effect:
      - Skin corrosion/irritation No irritant effect.
      - Serious eye damage/irritation No irritating effect.
    - Respiratory or skin sensitisation Sensitisation possible through skin contact.
  - Additional toxicological information:
    - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
  - Additional ecological information:
    - General notes: Generally not hazardous for water
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

(Contd. on page 5)
SECTION 13: Disposal considerations

13.1 Waste treatment methods
- Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number
- ADR, ADN, IMDG, IATA Void

14.2 UN proper shipping name
- ADR, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)
- ADR, ADN, IMDG, IATA
  - Class Void

14.4 Packing group
- ADR, IMDG, IATA Void

14.5 Environmental hazards:
- Marine pollutant: No

14.6 Special precautions for user
- Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
- Not applicable.
  - UN "Model Regulation": -

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- No further relevant information available.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
  H301 Toxic if swallowed.
  H311 Toxic in contact with skin.
### Abbreviations and acronyms:

- **ADR**: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- **IMDG**: International Maritime Code for Dangerous Goods
- **IATA**: International Air Transport Association
- **GHS**: Globally Harmonised System of Classification and Labelling of Chemicals
- **EINECS**: European Inventory of Existing Commercial Chemical Substances
- **ELINCS**: European List of Notified Chemical Substances
- **CAS**: Chemical Abstracts Service (division of the American Chemical Society)
- **Acute Tox. 3**: Acute toxicity, Hazard Category 3
- **Skin Corr. 1B**: Skin corrosion/irritation, Hazard Category 1B
- **Skin Sens. 1**: Sensitisation - Skin, Hazard Category 1
- **Aquatic Acute 1**: Hazardous to the aquatic environment - Acute Hazard, Category 1
- **Aquatic Chronic 1**: Hazardous to the aquatic environment - Chronic Hazard, Category 1
SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: C4 - Color Solution C4, 10ml
- Article number: 8989S

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the mixture: In vitro diagnostic medical device or component.

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Bio-Rad
  3, Boulevard Raymond Poincaré
  F-92430 Marnes-la-Coquette
  Tel.: +33 (0)1 47 95 60 00
  Fax: +33 (0)1 47 41 91 33
  e-mail: fds-msds.fr@bio-rad.com
- Further information obtainable from: Customer Support.

1.4 Emergency telephone number: See item 16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  ! GHS07
  Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.
  - Hazard pictograms GHS07
  - Signal word Warning
  - Hazard-determining components of labelling:
    reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
  - Hazard statements
    H317 May cause an allergic skin reaction.
  - Precautionary statements
    P280 Wear protective gloves/protective clothing/eye protection/face protection.
    P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
    P302+P352 IF ON SKIN: Wash with plenty of water and soap.
    P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures
- Description: Preparation containing hazardous components.

- Dangerous components:
  - CAS: 55965-84-9
  - Index number: 613-167-00-5
  - reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)
  - <0.01%
  - Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331
  - Skin Corr. 1B, H314
  - Aquatic Acute 1, H400; Aquatic Chronic 1, H410
  - Skin Sens. 1, H317

- Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
- After inhalation: Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and 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: Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing.
Wear disposable gloves.

6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Follow good laboratory practices.

- Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to
be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.

- Personal protective equipment:
  - General protective and hygienic measures:
    Immediately remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
  - Respiratory protection:
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or
    longer exposure use self-contained respiratory protective device.
  - Protection of hands:
    Protective gloves
    The glove material has to be impermeable and resistant to the product/ the substance/ the
    preparation.
  - Eye protection: Goggles recommended during refilling

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
- General Information
  - Appearance:
    - Form: Fluid
    - Colour: Light

(Contd. on page 4)
SECTION 10: Stability and reactivity

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- 10.2 Chemical stability
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
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13.1 Waste treatment methods
   · Recommendation
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     system.
   · Uncleaned packaging:
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     No

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   of MARPOL73/78 and the IBC Code
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SECTION 16: Other information

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for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases
  H301 Toxic if swallowed.
  H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

**Department issuing MSDS:**
MSDS / FDS Administr.
Bio-Rad
Marnes-la-Coquette, France

**Contact:**

UNITED KINGDOM
Bio-Rad Laboratories Ltd.
Bio-Rad House, Maxted Road,
Hemel Hempstead, Hertfordshire HP2 7DX

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