SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
  - **Trade name:** Anti-Actin hFAB™ Rhodamine
  - **Article number:** 12004164, 12004163, 12004639, 12004640

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

- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Bio-Rad Laboratories Ltd.
    Bio-Rad House
    Maxted Road
    Hemel Hempstead,
    Herts HP2 7DX
    United Kingdom        phone: 0800 181134   fax: 020-8328-2550
    e:mail contact: techsupport.uk@bio-rad.com

  - **Information department:**
    Technical services, customer support.
    techsupport.uk@bio-rad.com

- **1.4 Emergency telephone number:** 020-8328-2000

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
  - **Additional information:**
    Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

- **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 of the substances listed below with nonhazardous additions.

  - **Dangerous components:**
    - **CAS:** 57-50-1  EINECS: 200-334-9  sucrose, pure  substance with a Community workplace exposure limit 50-100%
    - **CAS:** 7647-14-5  EINECS: 231-598-3  sodium chloride  Skin Irrit. 2, H315; Eye Irrit. 2, H319  5-10%
SECTION 4: First aid measures

· 4.1 Description of first aid measures
· After inhalation Supply fresh air; consult doctor in case of complaints.
· After eye contact Rinse opened eye for several minutes under running water.
· After swallowing Induce vomiting and call for medical help.
· 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 Use fire fighting measures that suit the environment.
· 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.
· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
· 6.4 Reference to other sections
  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 No special precautions are necessary if used correctly.
· 7.2 Conditions for safe storage, including any incompatibilities
  · Storage
    · Requirements to be met by storerooms and receptacles: According to product specification
    · 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 systems: No further data; see item 7.

(Contd. on page 3)
8.1 Control parameters

- Components with limit values that require monitoring at the workplace:
  
  57-50-1 sucrose, pure
  
  WEL Short-term value: 20 mg/m³
  Long-term value: 10 mg/m³

- Additional information: The lists that were valid during the creation were used as basis.

8.2 Exposure controls

- Personal protective equipment

  General protective and hygienic measures
  The usual precautionary measures should be adhered to when handling chemicals.

  Protection of hands: Protective gloves.
  Material of gloves Synthetic gloves
  Penetration time of glove material
  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

  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: Pink
  Odour: Odourless
  Odour threshold: Not determined.
  pH-value at 20 °C: 7.8

- Change in condition
  
  Melting point/freezing point: undetermined
  Initial boiling point and boiling range: 1.461 °C

- Flash point: Not applicable

- Flammability (solid, gaseous) Not determined.

- Ignition temperature:
  Decomposition temperature: Not determined.

- Self igniting: Product is not selfigniting.

- Explosive properties: Product does not present an explosion hazard.

- Explosion limits:
  Lower: Not determined.
  Upper: Not determined.

- Vapour pressure: Not applicable.

- Density: Not determined
- Relative density: Not determined
- Vapour density: Not applicable.
Safety data sheet
according to 1907/2006/EC, Article 31

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Revision: 12.02.2017

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- Evaporation rate: Not applicable.
- Solubility in / Miscibility with Water: Soluble
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - dynamic: Not applicable.
  - kinematic: Not applicable.
- Solvent content:
  - Organic solvents: 0.0 %
- 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity: No further relevant information available.
- 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: Based on available data, the classification criteria are not met.
  - Primary irritant effect:
    - Skin corrosion/irritation: Based on available data, the classification criteria are not met.
    - Serious eye damage/irritation: Based on available data, the classification criteria are not met.
  - Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
  - CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
    - Germ cell mutagenicity: Based on available data, the classification criteria are not met.
    - Carcinogenicity: Based on available data, the classification criteria are not met.
  - Reproductive toxicity: Based on available data, the classification criteria are not met.
  - STOT-single exposure: Based on available data, the classification criteria are not met.
  - STOT-repeated exposure: Based on available data, the classification criteria are not met.
  - Aspiration hazard: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 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.

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

- **13.1 Waste treatment methods**
  - **Recommendation**: Dispose of waste in accordance to applicable national, regional, or local regulations.

- **Uncleaned packagings**
  - **Recommendation**: Disposal must be made according to official regulations.
  - **Recommended cleansing agent**: Water, if necessary 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
    - Class: Void

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

- **14.5 Environmental hazards**
  - Not applicable.

- **14.6 Special precautions for user**
  - Not applicable.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - Not applicable.

- **UN "Model Regulation"**
  - Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I: None of the ingredients is listed.
  - National regulations
  - Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.


**Trade name:** Anti-Actin hFab™ Rhodamine


**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**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.

- **Department issuing SDS:** Environmental Health and Safety.

- **Contact:**
  - Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000
  - Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

- **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)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2