

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 10-Jan-2024 Revision Number 1

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

1.1. Product identifier

**Product Name** QXC Probes SMX 100x CMP

Catalogue Number(s) 12019007

**Nanoforms** Not applicable

Pure substance/mixture Mixture

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

Recommended use Laboratory chemicals

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

**Corporate Headquarters** 

Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547

USA

Manufacturer

Bio-Rad Laboratories, Life Science Group

2000 Alfred Nobel Drive Hercules, California 94547

USA

**Legal Entity / Contact Address** Bio-Rad Laboratories Ltd

The Junction Station Road Watford, WD17 1ET

UK

Bio-Rad Laboratories Pvt. Ltd.

Bio-Rad House

86-87, Udyog Vihar Phase IV Gurgaon

122005 Haryana India

Bio-Rad Laboratories (Pty) Ltd.

34 Bolton Road

Parkwood, Johannesburg 2193

South Africa

For further information, please contact

00800 00246 723 **Technical Service** 

> Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: cdg\_techsupport\_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141 CHEMTREC South Africa: 0-800-983-611

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

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### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### **Hazard statements**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

### 2.3. Other hazards

# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not applicable

#### 3.2 Mixtures

| Chemical name | Weight-% | REACH registration | EC No (EU | Classification according | Specific      | M-Factor | M-Factor    |
|---------------|----------|--------------------|-----------|--------------------------|---------------|----------|-------------|
|               |          | number             | Index No) | to Regulation (EC) No.   | concentration |          | (long-term) |
|               |          |                    |           | 1272/2008 [CLP]          | limit (SCL)   |          |             |
| Trade secret  | 20 - 35  | No data available  | Listed    | No data available        | -             | -        | -           |
|               |          |                    |           |                          |               |          |             |
| Trade secret  | 1 - 2.5  | No data available  | Listed    | No data available        | -             | -        | -           |
|               |          |                    |           |                          |               |          |             |
| Trade secret  | 1 - 2.5  | No data available  | Listed    | Aquatic Chronic 3        | -             | -        | -           |
|               |          |                    |           | (H412)                   |               |          |             |

### Full text of H- and EUH-phrases: see section 16

### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 mg/kg |                   | Inhalation LC50 - 4<br>hour - dust/mist - mg/L   | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm   |
|---------------|-----------------|-------------------|--|---|---|
| Trade secret  | 12600           | 10000             | Inhalation LC50 Rat<br>>2.75 mg/L 4 h<br>(condensation aerosol,<br>Source: ECHA)<br>2.75 | >2.75                                       | Inhalation LC50 Rat<br>>2.75 mg/L 4 h<br>(condensation<br>aerosol, Source:<br>ECHA) |
| Trade secret  | 2600            | No data available | No data available  | No data available                           | No data available   |
| Trade secret  | 2840            | 2000              | No data available  | No data available                           | No data available   |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

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**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

**Skin contact** In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and

water.

**Ingestion** Rinse mouth.

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

**Symptoms** No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

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**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store according to product and label instructions.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Exposure Limits**

| Chemical name | European Union            | Austria  | Belgium   | Bulg                | aria                 | Croatia                      |
|---------------|---------------------------|--|---|---------------------|----------------------|------------------------------|
| Trade secret  | 1                         | -  | TWA: 10 mg/m <sup>3</sup>                                 | -                   | •                    | TWA: 10 mg/m <sup>3</sup>    |
| Trade secret  | -                         | -  | -   | TWA: 5.0            | 0 mg/m <sup>3</sup>  | -                            |
| Trade secret  | -                         | -  | -   | TWA: 10             | .0 mg/m <sup>3</sup> | -                            |
| Chemical name | Cyprus                    | Czech Republic   | Denmark   | Esto                | onia                 | Finland                      |
| Trade secret  | 1                         | TWA: 10 mg/m <sup>3</sup><br>Ceiling: 15 mg/m <sup>3</sup> | -   | TWA: 10             | ) mg/m <sup>3</sup>  | TWA: 20 mg/m <sup>3</sup>    |
| Chemical name | France                    | Germany TRGS   | Germany DFG   | Gre                 |                      | Hungary                      |
| Trade secret  | TWA: 10 mg/m <sup>3</sup> | TWA: 200 mg/m <sup>3</sup>                                 | TWA: 200 mg/m <sup>3</sup><br>Peak: 400 mg/m <sup>3</sup> | TWA: 10             | ) mg/m <sup>3</sup>  | -                            |
| Chemical name | Ireland                   | Italy MDLPS  | Italy AIDII   | Lat                 | via                  | Lithuania                    |
| Trade secret  | -                         | -  | -   | TWA: 5              | mg/m³                | TWA: 5 mg/m <sup>3</sup>     |
| Trade secret  | -                         | -  | -   | TWA: 0.0            | )2 mg/m <sup>3</sup> | -                            |
| Chemical name | Luxembourg                | Malta  | Netherlands   | Nor                 | way                  | Poland                       |
| Trade secret  | -                         | -  | -   | -                   |                      | TWA: 10 mg/m <sup>3</sup>    |
| Chemical name | Portugal                  | Romania  | Slovakia  | Slov                | enia                 | Spain                        |
| Trade secret  | TWA: 10 mg/m <sup>3</sup> | -  | TWA: 11 mg/m <sup>3</sup>                                 | TWA: 20<br>STEL: 40 |                      | TWA: 10 mg/m <sup>3</sup>    |
| Chemical name |                           | Sweden   | Switzerland   |                     | Uni                  | ted Kingdom                  |
| Trade secret  |                           | -  | TWA: 50 mg/m<br>STEL: 100 mg/r                            |                     |                      | 'A: 10 mg/m³<br>EL: 30 mg/m³ |

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)**No information available.

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**Predicted No Effect Concentration** (PNEC)

8.2. Exposure controls

Personal protective equipment

Eye/face protection No special protective equipment required.

No special protective equipment required. Skin and body protection

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

No information available. **Environmental exposure controls** 

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Liquid **Appearance** Liquid Colour clear Odour None.

**Odour threshold** No information available

**Property** Values Remarks • Method

No data available None known Melting point / freezing point Initial boiling point and boiling rangeNo data available None known No data available None known **Flammability** Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Flash point No data available None known **Autoignition temperature** No data available None known None known

**Decomposition temperature** 

pН 8-9

No data available pH (as aqueous solution) No information available

None known No data available Kinematic viscosity No data available None known Dynamic viscosity Water solubility Miscible in water None known Solubility(ies) No data available None known No data available **Partition coefficient** None known No data available Vapour pressure None known Relative density No data available None known

**Bulk density** No data available **Liquid Density** No data available

Relative vapour density No data available None known

**Particle characteristics** 

No information available **Particle Size Particle Size Distribution** No information available

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Not applicable

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### 9.2.2. Other safety characteristics

No information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
Avoid contact with metals. This product contains Sodium azide. Sodium azide can react with

Copper, Brass, Lead, and solder in piping systems to form explosive compounds and toxic

gases.

10.4. Conditions to avoid

**Conditions to avoid**None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Metals.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Acute toxicity

**Numerical measures of toxicity** 

No information available

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 13,826.50 mg/kg

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ATEmix (dermal)
Component Information

26,783.40 mg/kg

| Chemical name | Oral LD50           | Dermal LD50        | Inhalation LC50      |
|---------------|---------------------|--------------------|----------------------|
| Trade secret  | = 12600 mg/kg (Rat) | > 10 g/kg(Rabbit)  | > 2.75 mg/L (Rat)4 h |
| Trade secret  | = 2600 mg/kg (Rat)  | -                  | -                    |
| Trade secret  | = 2840 mg/kg (Rat)  | > 2000 mg/kg (Rat) | -                    |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

## **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life.

**Unknown aquatic toxicity**Contains 0.8934 % of components with unknown hazards to the aquatic environment.

|   | Fish | Toxicity to microorganisms                     | Crustacea                   |
|---|------|--|-----------------------------|
| - | ' '  | -  | -                           |
|   | -    | - LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss) | - LC50: 51 - 57mL/L (96h, - |

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| Trade secret | EC50: =2500mg/L (72h,<br>Desmodesmus<br>subspicatus) | LC50: =1060mg/L (96h,<br>Lepomis macrochirus)<br>LC50: 750 - 1020mg/L<br>(96h, Pimephales<br>promelas)  | - | EC50: =825mg/L (48h,<br>Daphnia magna)<br>EC50: =83mg/L (48h,<br>Daphnia magna) |
|--------------|--|---|---|---|
| Trade secret | -  | LC50: =250mg/L (96h, Brachydanio rerio) LC50: =480mg/L (96h, Brachydanio rerio) LC50: =420mg/L (96h, Brachydanio rerio) LC50: =18mg/L (96h, Cyprinus carpio) LC50: 32.2 - 41.9mg/L (96h, Oncorhynchus mykiss) LC50: 5.2 - 8.2mg/L (96h, Oncorhynchus mykiss) LC50: >100mg/L (96h, Pimephales promelas) LC50: 123 - 128mg/L (96h, Poecilia reticulata) LC50: =126mg/L (96h, Poecilia reticulata) | - | LC50: =14mg/L (48h,<br>Daphnia magna)   |

### 12.2. Persistence and degradability

Persistence and degradability

No information available.

# 12.3. Bioaccumulative potential

#### **Bioaccumulation**

**Component Information** 

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Trade secret  | -1.75                 |
| Trade secret  | -5.1                  |

### 12.4. Mobility in soil

Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

### PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment         |
|---------------|---------------------------------|
| Trade secret  | The substance is not PBT / vPvB |
| Trade secret  | The substance is not PBT / vPvB |
| Trade secret  | The substance is not PBT / vPvB |

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

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13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Flush pipes with water frequently if discarding solutions

containing Sodium azide into metal piping systems.

Contaminated packaging Do not reuse empty containers.

# **SECTION 14: Transport information**

#### IATA

14.1 UN number or ID number Not regulated Not regulated 14.2 UN proper shipping name 14.3 Transport hazard class(es) Not regulated Not regulated 14.4 Packing group 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

**IMDG** 

14.1 UN number or ID number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

14.7 Maritime transport in bulk according to IMO instruments

No information available

#### RID

14.1 UN number Not regulated 14.2 UN proper shipping name Not regulated 14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

#### ADR

14.1 UN number or ID number Not regulated Not regulated 14.2 UN proper shipping name 14.3 Transport hazard class(es) Not regulated Not regulated 14.4 Packing group 14.5 Environmental hazards Not applicable

14.6 Special Precautions for Users

**Special Provisions** None

### SECTION 15: Regulatory information

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

### National regulations

#### France

Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number | Title |
|---------------|------------------|-------|
| Trade secret  | RG 67            | -     |
|               |                  |       |

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#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

| Chemical name  | Biocidal Products Regulation (EU) No 528/2012 (BPR)   |
|----------------|---|
| Trade secret - | Product-type 11: Preservatives for liquid-cooling and |
|                | processing systems Product-type 12: Slimicides        |

<u>International Inventories</u> Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

## **SECTION 16: Other information**

Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of H-Statements referred to under section 3

H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |
| Skin sensitisation  | Calculation method |
| Mutagenicity  | Calculation method |
| Carcinogenicity   | Calculation method |
| Reproductive toxicity   | Calculation method |

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| STOT - single exposure   | Calculation method |
|--------------------------|--------------------|
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity   | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard        | Calculation method |
| Ozone                    | Calculation method |

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)

European Chemicals Agency (ECHA) (ECHA\_API)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

Revision Note Significant changes throughout SDS. Review all sections

Revision date 10-Jan-2024

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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