

# KIT SAFETY DATA SHEET



**Kit Product Name** Bio-Plex Pro Human IgA/IgG/IgM SARS-CoV-2 Positive and Negative Controls

**Kit Catalogue Number(s)** 12014774, 12014775, 12014776

**Revision date** 28-May-2021

## Kit Contents

| Catalogue Number(s)          | Product Name  |
|------------------------------|---|
| 12015045, 12015039, 12015038 | Bio-Plex Pro Human IgA/IgG/IgM SARS-CoV-2 Positive Controls |
| 12015040                     | Bio-Plex Pro Human IgA/IgG/IgM SARS-CoV-2 Negative Control  |



# 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 28-May-2021 Previous revision date 10-Mar-2021 Revision Number 2

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

### 1.1. Product identifier

Product Name Bio-Plex Pro Human IgA/IgG/IgM SARS-CoV-2 Positive Controls

Catalogue Number(s) 12015039, 12015045, 12015038

Pure substance/mixture Mixture

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone

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

Recommended use Laboratory chemicals

### 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

For further information, please contact

Technical Service 00800 00246 723  
Techsupport.UK@bio-rad.com

### 1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC UK: 44-870-8200418

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|                          |                      |
|--------------------------|----------------------|
| Skin sensitisation       | Category 1A - (H317) |
| Chronic aquatic toxicity | Category 3 - (H412)  |

### 2.2. Label elements

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone



Signal word  
Warning

#### **Hazard statements**

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

#### **Precautionary Statements - EU (§28, 1272/2008)**

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

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

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

#### **2.3. Other hazards**

Harmful to aquatic life. Contains animal source material.

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

### **3.1 Substances**

Not applicable

### **3.2 Mixtures**

| Chemical name     | EC No                    | CAS No     | Weight-%     | Classification according to Regulation (EC) No. 1272/2008 [CLP]  | REACH registration number |
|-------------------|--------------------------|------------|--------------|--|---------------------------|
| Trade secret      | Listed                   | -          | 0.1 - 0.299  | No data available  | No data available         |
| Sodium azide      | 247-852-1                | 26628-22-8 | 0.01 - 0.099 | Acute Tox. 2 (H300)<br>(EUH032)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)  | No data available         |
| Trade secret      | No information available | -          | 0.001 - 0.01 | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>(EUH071)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | No data available         |
| Sodium hydroxide  | 215-185-5                | 1310-73-2  | < 0.001      | Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318)<br>Met. Corr. 1 (H290)   | No data available         |
| Hydrochloric acid | 231-595-7                | 7647-01-0  | < 0.001      | Acute Tox. 3 (H331)<br>Skin Corr. 1A (H314)<br>Press. Gas  | No data available         |

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

## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General advice**

Show this safety data sheet to the doctor in attendance.

#### **Inhalation**

Remove to fresh air.

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.                 |
| <b>Skin contact</b> | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. |
| <b>Ingestion</b>    | Rinse mouth thoroughly with water.  |

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

|                 |                         |
|-----------------|-------------------------|
| <b>Symptoms</b> | Itching. Rashes. Hives. |
|-----------------|-------------------------|

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

|                        |  |
|------------------------|--|
| <b>Note to doctors</b> | May cause sensitisation in susceptible persons. Treat symptomatically. |
|------------------------|--|

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

|                                       |   |
|---------------------------------------|---|
| <b>Suitable Extinguishing Media</b>   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b>Unsuitable extinguishing media</b> | No information available.   |

#### **5.2. Special hazards arising from the substance or mixture**

|   |   |
|---|---|
| <b>Specific hazards arising from the chemical</b> | Product is or contains a sensitiser. May cause sensitisation by skin contact. |
|---|---|

#### **5.3. Advice for firefighters**

|   |  |
|---|--|
| <b>Special protective equipment for fire-fighters</b> | 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**

|                                 |  |
|---------------------------------|--|
| <b>Personal precautions</b>     | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| <b>For emergency responders</b> | Use personal protection recommended in Section 8.  |

#### **6.2. Environmental precautions**

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | See Section 12 for additional Ecological Information. |
|----------------------------------|---|

#### **6.3. Methods and material for containment and cleaning up**

|  |  |
|--|--|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Take up mechanically, placing in appropriate containers for disposal.                |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

#### **6.4. Reference to other sections**

|                                    |  |
|------------------------------------|--|
| <b>Reference to other sections</b> | 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

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. 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   | United Kingdom  | France  | Spain  | Germany  |
|--------------------------------|--|---|---|--|--|
| Trade secret                   | -  | -   | -   | -  | TWA: 10 mg/m <sup>3</sup><br>H*                |
| Sodium azide<br>26628-22-8     | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>*                       | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>Sk*  | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>*  | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>via dérmica*              | TWA: 0.2 mg/m <sup>3</sup>                     |
| Sodium hydroxide<br>1310-73-2  | -  | STEL: 2 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup>  | STEL: 2 mg/m <sup>3</sup>  | -  |
| Hydrochloric acid<br>7647-01-0 | TWA: 5 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup> | TWA: 1 ppm<br>TWA: 2 mg/m <sup>3</sup><br>STEL: 5 ppm<br>STEL: 8 mg/m <sup>3</sup>  | STEL: 5 ppm<br>STEL: 7.6 mg/m <sup>3</sup>                      | TWA: 5 ppm<br>TWA: 7.6 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup> | TWA: 2 ppm<br>TWA: 3 mg/m <sup>3</sup>         |
| Chemical name                  | Italy  | Portugal  | Netherlands   | Finland  | Denmark  |
| Sodium azide<br>26628-22-8     | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>pelle*                  | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>Ceiling: 0.29 mg/m <sup>3</sup><br>Ceiling: 0.11 ppm<br>P*                                 | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>H* | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>iho*                      | TWA: 0.1 mg/m <sup>3</sup><br>H*               |
| Sodium hydroxide<br>1310-73-2  | -  | Ceiling: 2 mg/m <sup>3</sup>  | -   | Ceiling: 2 mg/m <sup>3</sup>   | Ceiling: 2 mg/m <sup>3</sup>                   |
| Hydrochloric acid<br>7647-01-0 | TWA: 5 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup> | TWA: 5 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup><br>Ceiling: 2 ppm  | TWA: 8 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>          | STEL: 5 ppm<br>STEL: 7.6 mg/m <sup>3</sup>   | Ceiling: 5 ppm<br>Ceiling: 8 mg/m <sup>3</sup> |
| Chemical name                  | Austria  | Switzerland   | Poland  | Norway   | Ireland  |
| Trade secret                   | -  | TWA: 0.2 ppm<br>TWA: 1 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>STEL: 0.8 ppm<br>STEL: 4 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup><br>H* | -   | -  | -  |
| Sodium azide                   | TWA: 0.1 mg/m <sup>3</sup>   | TWA: 0.2 mg/m <sup>3</sup>  | STEL: 0.3 mg/m <sup>3</sup>                                     | TWA: 0.1 mg/m <sup>3</sup>   | TWA: 0.1 mg/m <sup>3</sup>                     |

|                                |  |  |   |  |  |
|--------------------------------|--|--|---|--|--|
| 26628-22-8                     | STEL 0.3 mg/m <sup>3</sup><br>H*   | STEL: 0.4 mg/m <sup>3</sup>  | TWA: 0.1 mg/m <sup>3</sup>                              | STEL: 0.3 mg/m <sup>3</sup>                    | STEL: 0.3 mg/m <sup>3</sup><br>Sk*   |
| Trade secret                   | TWA: 0.05 mg/m <sup>3</sup>  | -  | -   | -  | -  |
| Sodium hydroxide<br>1310-73-2  | TWA: 2 mg/m <sup>3</sup><br>STEL 4 mg/m <sup>3</sup>                               | TWA: 2 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>                              | STEL: 1 mg/m <sup>3</sup><br>TWA: 0.5 mg/m <sup>3</sup> | Ceiling: 2 mg/m <sup>3</sup>                   | STEL: 2 mg/m <sup>3</sup>  |
| Hydrochloric acid<br>7647-01-0 | TWA: 5 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL 10 ppm<br>STEL 15 mg/m <sup>3</sup> | TWA: 2 ppm<br>TWA: 3 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 6 mg/m <sup>3</sup> | STEL: 10 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>  | Ceiling: 5 ppm<br>Ceiling: 7 mg/m <sup>3</sup> | TWA: 8 mg/m <sup>3</sup><br>TWA: 5 ppm<br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup> |

#### **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.

**Predicted No Effect Concentration (PNEC)** No information available.

#### **8.2. Exposure controls**

##### **Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**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.

**Environmental exposure controls** No information available.

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

### **9.1. Information on basic physical and chemical properties**

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Liquid                   |
| <b>Appearance</b>      | aqueous solution         |
| <b>Colour</b>          | light yellow             |
| <b>Odour</b>           | Odourless.               |
| <b>Odour threshold</b> | No information available |

| <b>Property</b>                               | <b>Values</b>            | <b>Remarks • Method</b> |
|---|--------------------------|-------------------------|
| <b>pH</b>                                     | No information available | None known              |
| <b>pH (as aqueous solution)</b>               |                          |                         |
| <b>Melting point / freezing point</b>         | No data available        | None known              |
| <b>Boiling point / boiling range</b>          | 100 °C                   |                         |
| <b>Flash point</b>                            | No data available        | None known              |
| <b>Evaporation rate</b>                       | No data available        | None known              |
| <b>Flammability (solid, gas)</b>              | No data available        | None known              |
| <b>Flammability Limit in Air</b>              |                          | None known              |
| <b>Upper flammability or explosive limits</b> | No data available        |                         |

|   |                   |            |
|---|-------------------|------------|
| <b>Lower flammability or explosive limits</b> | No data available |            |
| <b>Vapour pressure</b>                        | No data available | None known |
| <b>Vapour density</b>                         | No data available | None known |
| <b>Relative density</b>                       | No data available | None known |
| <b>Water solubility</b>                       | Miscible in water |            |
| <b>Solubility(ies)</b>                        | No data available | None known |
| <b>Partition coefficient</b>                  | No data available | None known |
| <b>Autoignition temperature</b>               | No data available | None known |
| <b>Decomposition temperature</b>              |                   | None known |
| <b>Kinematic viscosity</b>                    | No data available | None known |
| <b>Dynamic viscosity</b>                      | No data available | None known |
| <b>Explosive properties</b>                   | Not applicable    |            |
| <b>Oxidising properties</b>                   | Not applicable    |            |
| <b>9.2. Other information</b>                 |                   |            |
| <b>Softening point</b>                        | Not applicable    |            |
| <b>Molecular weight</b>                       | Not applicable    |            |
| <b>VOC Content (%)</b>                        | Not applicable    |            |

## **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 toxicological effects**

#### **Information on likely routes of exposure**

##### **Product Information**

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

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available.   |
| <b>Skin contact</b> | May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available.   |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Itching. Rashes. Hives.

**Numerical measures of toxicity**

**Acute toxicity**

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

**Component Information**

| Chemical name     | Oral LD50               | Dermal LD50                                 | Inhalation LC50         |
|-------------------|-------------------------|---|-------------------------|
| Trade secret      | = 4070 mg/kg ( Rat )    |   |                         |
| Sodium azide      | = 27 mg/kg ( Rat )      | = 20 mg/kg ( Rabbit )<br>= 50 mg/kg ( Rat ) |                         |
| Trade secret      | = 53 mg/kg ( Rat )      |   |                         |
| Sodium hydroxide  | = 325 mg/kg ( Rat )     | = 1350 mg/kg ( Rabbit )                     |                         |
| Hydrochloric acid | 238 - 277 mg/kg ( Rat ) | > 5010 mg/kg ( Rabbit )                     | = 1.68 mg/L ( Rat ) 1 h |

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

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Based on available data, the classification criteria are not met. |
| <b>Serious eye damage/eye irritation</b> | Based on available data, the classification criteria are not met. |
| <b>Respiratory or skin sensitisation</b> | May cause sensitisation by skin contact.                          |
| <b>Germ cell mutagenicity</b>            | Based on available data, the classification criteria are not met. |
| <b>Carcinogenicity</b>                   | Based on available data, the classification criteria are not met. |
| <b>Reproductive toxicity</b>             | Based on available data, the classification criteria are not met. |
| <b>STOT - single exposure</b>            | Based on available data, the classification criteria are not met. |
| <b>STOT - repeated exposure</b>          | Based on available data, the classification criteria are not met. |
| <b>Aspiration hazard</b>                 | Based on available data, the classification criteria are not met. |

**SECTION 12: Ecological information**

**12.1. Toxicity**

|                                 |   |
|---------------------------------|---|
| <b>Ecotoxicity</b>              | Harmful to aquatic life with long lasting effects.                          |
| <b>Unknown aquatic toxicity</b> | Contains 0 % of components with unknown hazards to the aquatic environment. |



| Chemical name     | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea                           |
|-------------------|----------------------|--|----------------------------|-------------------------------------|
| Trade secret      | -                    | LC50: 420 - 558mg/L (96h, Pimephales promelas)<br>LC50: >100mg/L (96h, Pimephales promelas)  | -                          | EC50: <650mg/L (48h, Daphnia magna) |
| Sodium azide      | -                    | LC50: =0.7mg/L (96h, Lepomis macrochirus)<br>LC50: =0.8mg/L (96h, Oncorhynchus mykiss)<br>LC50: =5.46mg/L (96h, Pimephales promelas) | -                          | -                                   |
| Sodium hydroxide  | -                    | LC50: =45.4mg/L (96h, Oncorhynchus mykiss)   | -                          | -                                   |
| Hydrochloric acid | -                    | LC50: =282mg/L (96h, Gambusia affinis)   | -                          | -                                   |

## **12.2. Persistence and degradability**

**Persistence and degradability** No information available.

## **12.3. Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

### **Component Information**

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Trade secret  | -2.13                 |

## **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                               |
| Sodium azide      | PBT assessment does not apply                                 |
| Trade secret      | The substance is not PBT / vPvB                               |
| Sodium hydroxide  | The substance is not PBT / vPvB PBT assessment does not apply |
| Hydrochloric acid | The substance is not PBT / vPvB PBT assessment does not apply |

## **12.6. Other adverse effects**

**Other adverse effects** No information available.

# **SECTION 13: Disposal considerations**

## **13.1. Waste treatment methods**

**Waste from residues/unused products** Flush pipes with water frequently if discarding solutions containing Sodium azide into metal piping systems. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

## SECTION 14: Transport information

### IMDG

|  |                          |
|--|--------------------------|
| 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 Marine pollutant  | Not applicable           |
| 14.6 Special Precautions for Users                                       |                          |
| Special Provisions   | None                     |
| 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code | 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                     | 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           |

### IATA

|                                    |                |
|------------------------------------|----------------|
| 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           |

## SECTION 15: Regulatory information

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

#### National regulations

##### Germany

Water hazard class (WGK)

Obviously hazardous to water (WGK 2)

##### 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

**Named dangerous substances per Seveso Directive (2012/18/EU)**

| Chemical name                 | Lower-tier requirements (tons) | Upper-tier requirements (tons) |
|-------------------------------|--------------------------------|--------------------------------|
| Hydrochloric acid - 7647-01-0 | 25                             | 250                            |

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**International Inventories**

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**

EUH032 - Contact with acids liberates very toxic gas

EUH071 - Corrosive to the respiratory tract

H290 - May be corrosive to metals

H300 - Fatal if swallowed

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

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic 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 |
| Mutagenicity  | Calculation method |
| Carcinogenicity   | Calculation method |
| Reproductive toxicity   | Calculation method |
| 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)  
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)  
Japan GHS Classification  
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  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Prepared By** Bio-Rad Laboratories, Environmental Health and Safety  
**Revision date** 28-May-2021  
**Reason for revision** Significant changes throughout SDS. Review all sections

**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**



# 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 28-May-2021 Previous revision date 10-Mar-2021 Revision Number 2

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

### 1.1. Product identifier

**Product Name** Bio-Plex Pro Human IgA/IgG/IgM SARS-CoV-2 Negative Control  
**Catalogue Number(s)** 12015040

**Pure substance/mixture** Mixture

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone

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

**Recommended use** Laboratory chemicals

### 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

For further information, please contact

**Technical Service** 00800 00246 723  
Techsupport.UK@bio-rad.com

### 1.4. Emergency telephone number

**24 Hour Emergency Phone Number** CHEMTREC UK: 44-870-8200418

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|                                 |                      |
|---------------------------------|----------------------|
| <b>Skin sensitisation</b>       | Category 1A - (H317) |
| <b>Chronic aquatic toxicity</b> | Category 3 - (H412)  |

### 2.2. Label elements

Contains 5-Chloro-2-methyl-3(2H)-isothiazolone, mixture with 2-methyl-3(2H)-isothiazolone



**Signal word**

Warning

**Hazard statements**

H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

**Precautionary Statements - EU (§28, 1272/2008)**

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

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

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

**2.3. Other hazards**

Harmful to aquatic life. Contains animal source material.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

| Chemical name     | EC No                    | CAS No     | Weight-%     | Classification according to Regulation (EC) No. 1272/2008 [CLP]  | REACH registration number |
|-------------------|--------------------------|------------|--------------|--|---------------------------|
| Trade secret      | Listed                   | -          | 0.1 - 0.299  | No data available  | No data available         |
| Sodium azide      | 247-852-1                | 26628-22-8 | 0.001 - 0.01 | Acute Tox. 2 (H300)<br>(EUH032)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410)  | No data available         |
| Trade secret      | No information available | -          | 0.001 - 0.01 | Acute Tox. 3 (H301)<br>Acute Tox. 3 (H311)<br>Acute Tox. 3 (H331)<br>Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Skin Sens. 1A (H317)<br>(EUH071)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | No data available         |
| Sodium hydroxide  | 215-185-5                | 1310-73-2  | < 0.001      | Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318)<br>Met. Corr. 1 (H290)   | No data available         |
| Hydrochloric acid | 231-595-7                | 7647-01-0  | < 0.001      | Acute Tox. 3 (H331)<br>Skin Corr. 1A (H314)<br>Press. Gas  | No data available         |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                |   |
|----------------|---|
| General advice | Show this safety data sheet to the doctor in attendance.  |
| Inhalation     | Remove to fresh air.  |
| Eye contact    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.                 |
| Skin contact   | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. |
| Ingestion      | Rinse mouth thoroughly with water.  |

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

|          |                         |
|----------|-------------------------|
| Symptoms | Itching. Rashes. Hives. |
|----------|-------------------------|

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

|                 |  |
|-----------------|--|
| Note to doctors | May cause sensitisation in susceptible persons. Treat symptomatically. |
|-----------------|--|

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |   |
|--------------------------------|---|
| Suitable Extinguishing Media   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | No information available.   |

### 5.2. Special hazards arising from the substance or mixture

|  |   |
|--|---|
| Specific hazards arising from the chemical | Product is or contains a sensitiser. May cause sensitisation by skin contact. |
|--|---|

### 5.3. Advice for firefighters

|  |  |
|--|--|
| Special protective equipment 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     | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| 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. |
|-------------------------|---|

|   |  |
|---|--|
| <b>Methods for cleaning up</b>          | Take up mechanically, placing in appropriate containers for disposal.                |
| <b>Prevention of secondary hazards</b>  | Clean contaminated objects and areas thoroughly observing environmental regulations. |
| <b>6.4. Reference to other sections</b> |  |
| <b>Reference to other sections</b>      | See section 8 for more information. See section 13 for more information.             |

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                                       |   |
|---------------------------------------|---|
| <b>Advice on safe handling</b>        | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. |
| <b>General hygiene considerations</b> | Handle in accordance with good industrial hygiene and safety practice.  |

### 7.2. Conditions for safe storage, including any incompatibilities

|                           |   |
|---------------------------|---|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store according to product and label instructions. |
|---------------------------|---|

### 7.3. Specific end use(s)

|                                      |  |
|--------------------------------------|--|
| <b>Risk Management Methods (RMM)</b> | 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   | United Kingdom  | France  | Spain  | Germany  |
|--------------------------------|--|---|---|--|--|
| Trade secret                   | -  | -   | -   | -  | TWA: 10 mg/m <sup>3</sup><br>H*                |
| Sodium azide<br>26628-22-8     | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>*                       | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>Sk*  | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>*  | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>via dérmica*              | TWA: 0.2 mg/m <sup>3</sup>                     |
| Sodium hydroxide<br>1310-73-2  | -  | STEL: 2 mg/m <sup>3</sup>   | TWA: 2 mg/m <sup>3</sup>  | STEL: 2 mg/m <sup>3</sup>  | -  |
| Hydrochloric acid<br>7647-01-0 | TWA: 5 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup> | TWA: 1 ppm<br>TWA: 2 mg/m <sup>3</sup><br>STEL: 5 ppm<br>STEL: 8 mg/m <sup>3</sup>                                      | STEL: 5 ppm<br>STEL: 7.6 mg/m <sup>3</sup>                      | TWA: 5 ppm<br>TWA: 7.6 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup> | TWA: 2 ppm<br>TWA: 3 mg/m <sup>3</sup>         |
| Chemical name                  | Italy  | Portugal  | Netherlands   | Finland  | Denmark  |
| Sodium azide<br>26628-22-8     | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>pelle*                  | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>Ceiling: 0.29 mg/m <sup>3</sup><br>Ceiling: 0.11 ppm<br>P* | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>H* | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>iho*                      | TWA: 0.1 mg/m <sup>3</sup><br>H*               |
| Sodium hydroxide<br>1310-73-2  | -  | Ceiling: 2 mg/m <sup>3</sup>  | -   | Ceiling: 2 mg/m <sup>3</sup>   | Ceiling: 2 mg/m <sup>3</sup>                   |
| Hydrochloric acid<br>7647-01-0 | TWA: 5 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup> | TWA: 5 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup><br>Ceiling: 2 ppm                  | TWA: 8 mg/m <sup>3</sup><br>STEL: 15 mg/m <sup>3</sup>          | STEL: 5 ppm<br>STEL: 7.6 mg/m <sup>3</sup>   | Ceiling: 5 ppm<br>Ceiling: 8 mg/m <sup>3</sup> |



| Chemical name                  | Austria  | Switzerland   | Poland  | Norway  | Ireland  |
|--------------------------------|--|---|---|---|--|
| Trade secret                   | -  | TWA: 0.2 ppm<br>TWA: 1 mg/m <sup>3</sup><br>TWA: 10 mg/m <sup>3</sup><br>STEL: 0.8 ppm<br>STEL: 4 mg/m <sup>3</sup><br>STEL: 20 mg/m <sup>3</sup><br>H* | -   | -   | -  |
| Sodium azide<br>26628-22-8     | TWA: 0.1 mg/m <sup>3</sup><br>STEL 0.3 mg/m <sup>3</sup><br>H*                     | TWA: 0.2 mg/m <sup>3</sup><br>STEL: 0.4 mg/m <sup>3</sup>   | STEL: 0.3 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup> | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.3 mg/m <sup>3</sup><br>Sk*                     |
| Trade secret                   | TWA: 0.05 mg/m <sup>3</sup>  | -   | -   | -   | -  |
| Sodium hydroxide<br>1310-73-2  | TWA: 2 mg/m <sup>3</sup><br>STEL 4 mg/m <sup>3</sup>                               | TWA: 2 mg/m <sup>3</sup><br>STEL: 2 mg/m <sup>3</sup>   | STEL: 1 mg/m <sup>3</sup><br>TWA: 0.5 mg/m <sup>3</sup>   | Ceiling: 2 mg/m <sup>3</sup>                              | STEL: 2 mg/m <sup>3</sup>  |
| Hydrochloric acid<br>7647-01-0 | TWA: 5 ppm<br>TWA: 8 mg/m <sup>3</sup><br>STEL 10 ppm<br>STEL 15 mg/m <sup>3</sup> | TWA: 2 ppm<br>TWA: 3 mg/m <sup>3</sup><br>STEL: 4 ppm<br>STEL: 6 mg/m <sup>3</sup>  | STEL: 10 mg/m <sup>3</sup><br>TWA: 5 mg/m <sup>3</sup>    | Ceiling: 5 ppm<br>Ceiling: 7 mg/m <sup>3</sup>            | TWA: 8 mg/m <sup>3</sup><br>TWA: 5 ppm<br>STEL: 10 ppm<br>STEL: 15 mg/m <sup>3</sup> |

#### 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.

**Predicted No Effect Concentration (PNEC)** No information available.

#### 8.2. Exposure controls

##### Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand protection** Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**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.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** aqueous solution  
**Colour** light yellow  
**Odour** Odourless.  
**Odour threshold** No information available

| <u>Property</u> | <u>Values</u>            | <u>Remarks • Method</u> |
|-----------------|--------------------------|-------------------------|
| pH              | No information available | None known              |

|   |                   |            |
|---|-------------------|------------|
| <b>pH (as aqueous solution)</b>               |                   |            |
| <b>Melting point / freezing point</b>         | No data available | None known |
| <b>Boiling point / boiling range</b>          | 100 °C            |            |
| <b>Flash point</b>                            | No data available | None known |
| <b>Evaporation rate</b>                       | No data available | None known |
| <b>Flammability (solid, gas)</b>              | No data available | None known |
| <b>Flammability Limit in Air</b>              |                   | None known |
| <b>Upper flammability or explosive limits</b> | No data available |            |
| <b>Lower flammability or explosive limits</b> | No data available |            |
| <b>Vapour pressure</b>                        | No data available | None known |
| <b>Vapour density</b>                         | No data available | None known |
| <b>Relative density</b>                       | No data available | None known |
| <b>Water solubility</b>                       | Miscible in water |            |
| <b>Solubility(ies)</b>                        | No data available | None known |
| <b>Partition coefficient</b>                  | No data available | None known |
| <b>Autoignition temperature</b>               | No data available | None known |
| <b>Decomposition temperature</b>              |                   | None known |
| <b>Kinematic viscosity</b>                    | No data available | None known |
| <b>Dynamic viscosity</b>                      | No data available | None known |
| <b>Explosive properties</b>                   | Not applicable    |            |
| <b>Oxidising properties</b>                   | Not applicable    |            |

#### **9.2. Other information**

|                         |                |
|-------------------------|----------------|
| <b>Softening point</b>  | Not applicable |
| <b>Molecular weight</b> | Not applicable |
| <b>VOC Content (%)</b>  | Not applicable |

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

|                   |                           |
|-------------------|---------------------------|
| <b>Reactivity</b> | No information available. |
|-------------------|---------------------------|

### **10.2. Chemical stability**

|                  |                                 |
|------------------|---------------------------------|
| <b>Stability</b> | Stable under normal conditions. |
|------------------|---------------------------------|

#### **Explosion data**

|   |       |
|---|-------|
| <b>Sensitivity to mechanical impact</b> | None. |
| <b>Sensitivity to static discharge</b>  | None. |

### **10.3. Possibility of hazardous reactions**

|   |   |
|---|---|
| <b>Possibility of hazardous reactions</b> | 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**

|                            |   |
|----------------------------|---|
| <b>Conditions to avoid</b> | None known based on information supplied. |
|----------------------------|---|

### **10.5. Incompatible materials**

|                               |         |
|-------------------------------|---------|
| <b>Incompatible materials</b> | Metals. |
|-------------------------------|---------|

### **10.6. Hazardous decomposition products**

|   |   |
|---|---|
| <b>Hazardous decomposition products</b> | None known based on information supplied. |
|---|---|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 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 | May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). |
| Ingestion    | Specific test data for the substance or mixture is not available.   |

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives.

#### Numerical measures of toxicity

##### Acute toxicity

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

##### Component Information

| Chemical name     | Oral LD50               | Dermal LD50                                 | Inhalation LC50         |
|-------------------|-------------------------|---|-------------------------|
| Trade secret      | = 4070 mg/kg ( Rat )    |   |                         |
| Sodium azide      | = 27 mg/kg ( Rat )      | = 20 mg/kg ( Rabbit )<br>= 50 mg/kg ( Rat ) |                         |
| Trade secret      | = 53 mg/kg ( Rat )      |   |                         |
| Sodium hydroxide  | = 325 mg/kg ( Rat )     | = 1350 mg/kg ( Rabbit )                     |                         |
| Hydrochloric acid | 238 - 277 mg/kg ( Rat ) | > 5010 mg/kg ( Rabbit )                     | = 1.68 mg/L ( Rat ) 1 h |

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

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | May cause sensitisation by skin contact.                          |
| 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

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name     | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea                           |
|-------------------|----------------------|--|----------------------------|-------------------------------------|
| Trade secret      | -                    | LC50: 420 - 558mg/L (96h, Pimephales promelas)<br>LC50: >100mg/L (96h, Pimephales promelas)  | -                          | EC50: <650mg/L (48h, Daphnia magna) |
| Sodium azide      | -                    | LC50: =0.7mg/L (96h, Lepomis macrochirus)<br>LC50: =0.8mg/L (96h, Oncorhynchus mykiss)<br>LC50: =5.46mg/L (96h, Pimephales promelas) | -                          | -                                   |
| Sodium hydroxide  | -                    | LC50: =45.4mg/L (96h, Oncorhynchus mykiss)   | -                          | -                                   |
| Hydrochloric acid | -                    | LC50: =282mg/L (96h, Gambusia affinis)   | -                          | -                                   |

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

#### Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Trade secret  | -2.13                 |

### 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                               |
| Sodium azide      | PBT assessment does not apply                                 |
| Trade secret      | The substance is not PBT / vPvB                               |
| Sodium hydroxide  | The substance is not PBT / vPvB PBT assessment does not apply |
| Hydrochloric acid | The substance is not PBT / vPvB PBT assessment does not apply |

### 12.6. Other adverse effects

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Flush pipes with water frequently if discarding solutions containing Sodium azide into metal piping systems. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

### IMDG

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 Marine pollutant Not applicable  
14.6 Special Precautions for Users  
Special Provisions None  
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code 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 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

### IATA

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

## SECTION 15: Regulatory information

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

#### National regulations

**Germany**

**Water hazard class (WGK)**

Obviously hazardous to water (WGK 2)

**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

**Named dangerous substances per Seveso Directive (2012/18/EU)**

| Chemical name                 | Lower-tier requirements (tons) | Upper-tier requirements (tons) |
|-------------------------------|--------------------------------|--------------------------------|
| Hydrochloric acid - 7647-01-0 | 25                             | 250                            |

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**International Inventories**

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**

EUH032 - Contact with acids liberates very toxic gas

EUH071 - Corrosive to the respiratory tract

H290 - May be corrosive to metals

H300 - Fatal if swallowed

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

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H400 - Very toxic to aquatic life

H410 - Very toxic 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 |
| Mutagenicity                          | Calculation method |
| Carcinogenicity                       | Calculation method |
| Reproductive toxicity                 | Calculation method |
| 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)  
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)  
Japan GHS Classification  
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  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Prepared By** Bio-Rad Laboratories, Environmental Health and Safety

**Revision date** 28-May-2021

**Reason for revision** Significant changes throughout SDS. Review all sections

**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**