

# SAFETY DATA SHEET

**Legal Entity / Contact Address** 

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This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name Bio-Plex Pro TGF-B Standard 3-Plex

Revision date 05-Oct-2022 **Revision Number** 3

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

**Product identifier** 

**Product Name** Bio-Plex Pro TGF-B Standard 3-Plex

Catalogue Number(s) 10020565, 171X40501, 171X40001

Other means of identification

Pure substance/mixture Mixture

Details of the supplier of the safety data sheet

**Corporate Headquarters** 

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Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Hong Kong: 800-968-793

Recommended use of the chemical and restrictions on use

Recommended use Laboratory chemicals

### SECTION 2: Hazards identification

**Emergency Overview** 

No significant adverse health effects

**Appearance** powder or cake, lyophilised Physical state Solid **Odour** Odourless

Classification of the substance or mixture

Acute toxicity - Oral Category 5

Label elements

Signal word Warning

Hazard statements

Review Date 05-Oct-2022

May be harmful if swallowed

### **Precautionary statements**

#### Physical and chemical hazards

Not applicable.

#### **Health hazards**

Immediate Health Effects: If large quantities of this material are swallowed, call a doctor immediately. If symptoms persist, call a

doctor.

Chronic effects: Not applicable.

### **Environmental hazards**

Not applicable

### Other hazards which do not result in classification

Not applicable

Contains human source material and / or potentially infectious components.

# SECTION 3: Composition/information on ingredients

#### Substance

Not applicable.

#### **Mixture**

| Chemical name | Weight-% | CAS No |
|---------------|----------|--------|
| Trade secret  | 5 - 10   | -      |

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

### **Description of necessary first aid measures**

**General advice** No hazards which require special first aid measures.

**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 skin with soap and water.

**Ingestion** Rinse mouth thoroughly with water.

Most important symptoms and

effects, both acute and delayed

No information available.

For emergency responders No information available.

Note to doctors Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### Extinguishing media

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**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the

chemical

No information available.

Special protective actions for

fire-fighters

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

Use personal protection equipment.

### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8 for more information.

For emergency responders Use personal protection recommended in Section 8.

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

Methods and material for containment and cleaning up Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled

containers.

Precautions to prevent secondary

hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

# SECTION 7: Handling and storage

Handle in accordance with good industrial hygiene and safety practice. See Section 8 for Precautions for safe handling

information on appropriate personal protective equipment.

Conditions for safe storage, including any incompatibilities Store according to product and label instructions.

Incompatible materials None known based on information supplied.

# SECTION 8: Exposure controls/personal protection

### Occupational exposure limits

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

Note See section 16 for terms and abbreviations

### Biological occupational exposure limits

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

#### Monitoring and observation processes

No applicable information was found.

**Engineering controls** Showers

**Eyewash stations** Ventilation systems.

#### Individual protection measures, such as personal protective equipment

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

Wear suitable protective clothing. Skin and body protection

Hand protection Wear suitable gloves.

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

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

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

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

Information on basic physical and chemical properties

**Appearance** powder or cake, lyophilised

Colour white Physical state Solid Odourless Odour

**Odour threshold** No information available

**Property** Values Remarks • Method

None known pН No data available None known Melting point / freezing point Boiling point / boiling range No data available None known None known Flash point No data available **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known None known

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapour pressure No data available None known No data available Vapour density None known Relative density No data available None known

Water solubility Soluble in water

Solubility(ies) No data available None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Additional information

**Explosive properties** Not applicable Not applicable **Oxidising properties** 

# SECTION 10: Stability and reactivity

**Stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Sensitivity to mechanical impact None.

Inhalation LC50

Sensitivity to static discharge None.

Conditions to avoid None known based on information supplied.

Incompatible materials None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

Acute toxicity

Numerical measures of toxicity

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

ATEmix (oral) 3,262.70 mg/kg

### Unknown acute toxicity

90.5463 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

Oral LD50

**Component Information** 

Chemical name

| Trade secret                                       | = 3 g/kg (Rat)                                 | > 10000 mg/kg ( Rabbit )  | > 42 mg/L (Rat)1 h |
|--|--|---|--------------------|
| Skin corrosion/irritation                          | Based on available data, t                     | he classification criteria are not m                              | net.               |
| Serious eye damage/eye irritati                    | ion Based on available data, t                 | Based on available data, the classification criteria are not met. |                    |
| Respiratory or skin sensitisation                  | on Based on available data, t                  | he classification criteria are not m                              | net.               |
| Germ cell mutagenicity                             | Based on available data, t                     | he classification criteria are not m                              | net.               |
| Carcinogenicity                                    | Based on available data, t                     | he classification criteria are not m                              | net.               |
| Reproductive toxicity                              | Based on available data, t                     | he classification criteria are not m                              | net.               |
| Specific target organ toxicity – single exposure   | <ul> <li>Based on available data, t</li> </ul> | he classification criteria are not m                              | net.               |
| Specific target organ toxicity – repeated exposure | <ul> <li>Based on available data, t</li> </ul> | he classification criteria are not m                              | net.               |
| Aspiration hazard                                  | Based on available data, t                     | he classification criteria are not m                              | net.               |

Dermal LD50

# **SECTION 12: Ecological information**

### **Ecotoxicity**

Unknown aquatic toxicity 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

|   | Chemical name | Algae/aquatic plants | Fish                        | Crustacea                     |
|---|---------------|----------------------|-----------------------------|-------------------------------|
| Ī | Trade secret  | -                    | LC50: 5560 - 6080mg/L (96h, | EC50: =1000mg/L (48h,         |
| ١ |               |                      | Lepomis macrochirus)        | Daphnia magna)                |
|   |               |                      | LC50: =12946mg/L (96h,      | EC50: 340.7 - 469.2mg/L (48h, |

Lepomis macrochirus)

LC50: 6020 - 7070mg/L (96h,
Pimephales promehales)

Pimephales promeias) LC50: =7050mg/L (96h, Pimephales promelas) LC50: 6420 - 6700mg/L (96h, Pimephales promelas) LC50: 4747 - 7824mg/L (96h, Oncorhynchus mykiss)

<u>Persistence and degradability</u> No information available.

Bioaccumulative potential No information available.

Mobility in soil No information available.

# **SECTION 13: Disposal considerations**

Waste chemicals 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 Not regulated

Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

<u>IATA</u> Not regulated

<u>China</u> Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

# SECTION 15: Regulatory information

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

### **National regulations**

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors:

Catalogue of occupational diseases:

Not applicable.

Not applicable.

Regulations on the Control over Safety of Hazardous Chemicals

Inventory of hazardous chemicals

Not applicable.

GB 18218-2009 Identification of major hazard installations for dangerous chemicals Not applicable

List of hazardous chemicals under priority management Not applicable

Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used

Inventory of highly toxic goods Not applicable

# Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals

List of toxic chemicals severely restricted for import and export in China Not applicable

#### Measures for the Environmental Management of New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances Contact supplier for inventory compliance status.

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **SECTION 16: Other information**

Prepared By Bio-Rad Laboratories, Environmental Health and Safety

Revision date 05-Oct-2022

**Revision Note** Significant changes throughout SDS. Review all sections.

#### Abbreviations and acronyms

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### 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

Australia 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)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

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

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **Disclaimer**

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**End of Safety Data Sheet**