

Preparation Date 2023/09/08

**\*\*\*WARNING\*\*\***

**This Safety Data Sheet (SDS) has been created in accordance with Japanese laws and regulations (\*) on the assumption that it will be used in Japan.**

**In addition, the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) is based on the Chemical Risk Information Platform (NITE-CHRIP) provided by the National Institute of Technology and Evaluation (NITE), and is based on the information on the raw materials used to manufacture this product.**

**Therefore, regarding use outside of JAPAN, the user shall be responsible for appropriate evaluation, judgment and handling in accordance with the laws and regulations of each country, and Shimadzu Diagnostics Corporation shall not be liable at all.**

**(\*)- Poisonous and Deleterious Substances Control Act**

- **Industrial Safety and Health Act**
- **Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement ( Law concerning Pollutant Release and Transfer Register / PRTR)**

**This SDS describes the 16 items shown in "Methods for Communicating Hazard Information on Chemicals Based on GHS-Labels, Labels in the Workplace and Safety Data Sheets (JIS Z 7253:2019, 7.1 overall structure)".**

**There is no obligation to issue SDS, since this product have no substance stipulated in the Industrial Safety and Health Act, the Poisonous and Deleterious Substances Control Act, and Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement (PRTR).**

## Safety Data Sheet (SDS)

### Section 1 – CHEMICALS AND COMPANY IDENTIFICATION

|                     |                                      |
|---------------------|--------------------------------------|
| Chemical Identifier | EC-Blue 100P                         |
| Product Code        | 05592                                |
| Name of Supplier    | Shimadzu Diagnostics Corporation     |
| Address             | 3-24-6, Ueno, Taito-ku, Tokyo, JAPAN |
| Company Contact     | RELIABILITY ASSURANCE DEPARTMENT     |
| Phone Number        | +81-3-5846-5613                      |
| Fax Number          | +81-3-5846-5619                      |
| Mail Address        | yakuji@sdc.shimadzu.co.jp            |
| Emergency Phone     | +81-3-5846-5613                      |

### Section 2 – HAZARDS IDENTIFICATION

#### GHS Classification of the Chemical

|                       |   |
|-----------------------|---|
| Health Hazards        | Acute toxicity (dermal) Category 2  |
|                       | Reproductive toxicity Category 2  |
|                       | Specific target organ toxicity (single exposure) Category 2 (blood)                   |
|                       | Specific target organ toxicity (repeated exposure) Category 2 (blood)                 |
|                       | Environmental Hazards   |
| Environmental Hazards | Hazardous to the aquatic environment, short-term (acute) Category 3                   |
|                       | Other hazards than mentioned above are Not classified or Classification not possible. |



|             |  |
|-------------|--|
| Eye Contact | <p>Specific treatment.<br/>Take off immediately all contaminated clothing and wash it before reuse.<br/>IF exposed or concerned: Call a doctor.<br/>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> |
| Ingestion   | <p>IF exposed or concerned: Call a doctor.<br/>Rinse mouth.<br/>IF SWALLOWED: Call a doctor if you feel unwell.</p> <p>IF exposed or concerned: Call a doctor.</p>   |

**Section 5 – FIRE FIGHTING MEASURES**

|   |  |
|---|--|
| Suitable Extinguishing Media                          | <p>Use extinguishing agent suitable for type of surrounding fire.<br/>When dust occurs, use dry sand.<br/>No information available</p>   |
| Unsuitable Extinguishing Media                        |  |
| Specific Hazards in Case of Fire                      | <p>Risk of producing harmful gases such as carbon monoxide. Avoid inhalation of smoke or gases.</p>  |
| Specific Fire Fighting                                | <p>Fight fire from upwind position if possible<br/>Keep away from sources of ignition and use appropriate extinguishing media.<br/>Prohibit unauthorized staff from entering the area around the fire.<br/>Keep unnecessary people away.</p> |
| Special Protective Equipment and Precautions for Fire | <p>Use goggles in combination with dust mask, and another protections as appropriate to situation.</p>   |

**Section 6 – ACCIDENTAL RELEASE MEASURES**

|   |  |
|---|--|
| Personal Precautions, Protective Equipment and Emergency Procedures | <p>Use goggles in combination with dust mask, and another protections as appropriate to situation.</p>   |
| Environmental Precautions   | <p>Large spills :Evacuate area.<br/>Ensure adequate ventilation.<br/>Do not discharge into the drains, surface waters or ground water directly.</p>  |
| Methods and Equipment for Containment and Cleaning Up               | <p>in case of fine powder Sweep or vacuum spills to drums or containers.</p> <p>Prevent dispersion of dust.<br/>in case of fine powder Use explosion-proof electrical equipment and prevent from static electrocity.</p> |
| Prevention Measures for Secondary Accidents                         | <p>Keep away from sources of ignition and prepare extinguishing media.<br/>Risk of slipping. Spilled material forms slippery floor.</p> <p>Do not recklessly walk on the spillage.</p>                                   |

**Section 7 – HANDLING AND STORAGE**

|          |                    |  |
|----------|--------------------|--|
| Handling | Technical Measures | <p>Provide ventilation system and use necessary personal protective equipment as described in "Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION".</p> |
|----------|--------------------|--|

|         |   |  |
|---------|---|--|
|         |   | Use local exhaust ventilation in case of production of fume or mist.<br>Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.   |
|         | Precautions for Safe Handling                   | Do not eat, drink or smoke when using this product.<br><br>Wash hands thoroughly after handling.<br>Do not get in eyes, on skin, or on clothing.<br>Wear protective gloves/protective clothing/eye protection/face protection.<br>Do not breathe dust/fume/gas/mist/vapours/spray. |
|         | Prevents Handling of Incompatible Substances or | Refer to "Section 10 – STABILITY AND REACTIVITY".  |
| Storage | Conditions for Safe Storage                     | Refer to "Section 10 – STABILITY AND REACTIVITY".<br>Store locked up.  |

#### Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

|                               |                          |   |
|-------------------------------|--------------------------|---|
| Engineering Controls          |                          | Use local exhaust ventilation in case of production of fume or mist.<br>Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.<br>Use explosion-proof electrical equipment and prevent from static electrocity. |
| Personal Protective Equipment | Respiratory Protection   | If necessary, wear respiratory protection.  |
|                               | Hand Protection          | Wear protective gloves.   |
|                               | Eye/Face Protection      | Wear eye protection/face protection.  |
|                               | Skin and Body Protection | Wear protective clothing.   |

#### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

|   |             |                   |
|---|-------------|-------------------|
| Physical State  |             | solid             |
| Form  |             | solid (powder)    |
| Colour  |             | No data available |
| Odour   |             | No data available |
| Melting Point/Freezing Point                              |             | No data available |
| Boiling Point or Initial Boiling Point and Boiling Ranges |             | No data available |
| Flammability  |             | No data available |
| Lower and Upper Explosion Limit / Flammability Limit      | Lower Limit | No data available |
|   | Upper Limit | No data available |
| Flash Point   |             | no data available |
| Auto-Ignition Temperature                                 |             | No data available |
| Decomposition Temperature                                 |             | No data available |
| pH  |             | No data available |
| Kinematic Viscosity                                       |             | No data available |
| Solubility  |             | No data available |

|   |                   |
|---|-------------------|
| Partition Coefficient : n-Octanol/Water | No data available |
| Vapour Pressure                         | No data available |
| Density and/or Relative Density         | No data available |
| Relative Gas Density                    | No data available |
| Particle Characteristics                | No data available |

Section 10 – STABILITY AND REACTIVITY

|                                     |                          |
|-------------------------------------|--------------------------|
| Reactivity                          | No information available |
| Chemical Stability                  | No information available |
| Possibility of Hazardous Reaction   | No information available |
| Conditions to Avoid                 | No information available |
| Incompatible Substances or Mixtures | No information available |
| Hazardous Decomposition Products    | No information available |

Section 11 – TOXICOLOGICAL INFORMATION

|  |            |   |
|--|------------|---|
| Acute Toxicity                                     | Oral       | Classified as Classification not possible since the sum of the concentrations of unknown ingredients is not less than 0.1%.   |
|  | Dermal     | Classified as Category 2 since ATE is 200mg/kg.   |
|  | Inhalation | (gas)<br>Does not fall under gas based on GHS definitions.<br><br>(vapour)<br>Unable to classify due to insufficient data.<br>(dust and mist)<br>Unable to classify due to insufficient data. |
| Skin Corrosion/Irritation                          |            | Classified as Classification not possible since the sum of the concentrations of unknown ingredients is not less than 0.1%.   |
| Serious Eye Damage/Eye Irritation                  |            | Classified as Classification not possible since the sum of the concentrations of unknown ingredients is not less than 0.1%.   |
| Respiratory Sensitization                          |            | Unable to classify due to insufficient data.  |
| Skin Sensitization                                 |            | Classified as Classification not possible since the sum of the concentrations of unknown ingredients is not less than 0.1%.   |
| Germ Cell Mutagenicity                             |            | Unable to classify due to insufficient data.  |
| Carcinogenicity                                    |            | Unable to classify due to insufficient data.  |
| Reproductive Toxicity                              |            | (Reproductive toxicity)<br>Classified as Category 2 since one of the Category 2 ingredients is 5.6%.  |
|  |            | (Reproductive toxicity, effects on or via lactation)<br><br>Unable to classify due to insufficient data.  |
| Specific Target Organ Toxicity (Single Exposure)   |            | Classified as Category 2(blood) since one of the Category 1(blood) ingredients is 5.6%.   |
| Specific Target Organ Toxicity (Repeated Exposure) |            | Classified as Category 2(blood) since one of the Category 1(blood) ingredients is 5.6%.   |

Aspiration Hazard

Classified as Classification not possible since the kinematic viscosity is unknown.

Section 12 – ECOLOGICAL INFORMATION

Hazardous to the Aquatic Environment, Short-Term (Acute)

Classified as Category 3 since the sum of (M × 100 × Category 1) + (10 × Category 2) + Category 3 ingredients is 56%.

Hazardous to the Aquatic Environment, Long-Term (Chronic)

Classified as Classification not possible since the mixture contains unknown ingredients.

Ecotoxicity

No data available

Persistence

No data available

Bioaccumulative Potential

No data available

Mobility in Soil

No data available

Hazardous to the Ozone Layer

Unable to classify due to insufficient data.

Section 13 – DISPOSAL CONSIDERATIONS

Residual Waste

Dispose according to local government classification.

Outsource to a specialized waste disposal contractor licensed by the prefectural governor.

Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes.

Dispose of waste in accordance with local, state and federal regulations.

Contaminated Container and Packaging

Dispose according to local government classification.

Outsource to a specialized waste disposal contractor licensed by the prefectural governor.

Passed to a licensed waste contractor.

In case of disposal of empty containers, remove the content thoroughly.

Section 14 – TRANSPORT INFORMATION

International Regulations

Regulatory Information by Sea

Not regulated

Marine Pollutant Liquid Substance Transported in Bulk

Not applicable

Not applicable

According to MARPOL 73/78, Annex II, the IBC Code

Regulatory Information by Air

Not regulated

Regulations in Japan

Regulatory Information by Road

Not regulated

Regulatory Information by Sea

Not regulated

Marine Pollutant Liquid Substance Transported in Bulk

Not applicable

Not applicable

According to MARPOL 73/78, Annex II, the IBC Code

|   | Regulatory<br>Information by Air | Not regulated  |
|---|----------------------------------|--|
| Emergency Response<br>Guide Number  |                                  | None   |
| <b>Section 15 – REGULATORY INFORMATION</b>  |                                  |  |
| Industrial Safety and Health Act  |                                  | Dangerous Substances · oxidizing substances<br>(Order for Enforcement Appended Table 1 (iii) )   |
| Order for Enforcement of Industrial Safety and<br>Health Act (Cabinet Order No. 318 of 1972)<br>Substances newly added to the mandatory<br>labeling and SDS delivery based on Article 18<br>and Article 18-2<br>(Scheduled to come into force on April 1, 2025) |                                  | Dangerous or Harmful Substances Subject to Be<br>Indicated their Names, etc. (Act Article 57(1), Order<br>for Enforcement Article 18(1), Appended Table 9)   |
|   |                                  | Dangerous Articles and Harmful Substances Whose<br>Names, etc. Should Be Notified (Act Article 57-2<br>Paragraph (1), Order for Enforcement Article 18-2,<br>Appended Table 9)   |
| Poisonous and Deleterious Substances Control<br>Act   |                                  | Not applicable   |
| Act on the Assessment of Releases of Specified<br>Chemical Substances in the Environment and<br>the Promotion of Management Improvement (<br>Law concerning Pollutant Release and Transfer<br>Register / PRTR)  |                                  | Not applicable   |
| Act on the Regulation of Manufacture and<br>Evaluation of Chemical Substances (Chemical<br>Substances Control Law(GSCL))  |                                  | Priority assessment chemical substances (Act<br>Article 2(5))  |
| Water Pollution Prevention Act  |                                  | Harmful substances (Act Article 2, Order for<br>Enforcement Article 2, Ministerial Ordinance for<br>Effluent Standards Article 1)  |
| Act on Prevention of Marine Pollution and<br>Maritime Disaster  |                                  | Harmful liquid substances (category Z substance or<br>its equivalent)(The Ministry of the Environment<br>Notification No.148-3)  |
| Foreign Exchange and Foreign Trade Act  |                                  | Export Trade Control Order – Appended Table 1(1)<br><br>Export Trade Control Order – Appended Table 1(16)  |
| the Road Law  |                                  | Vehicle traffic restrictions (Order for Enforcement<br>Article 19-3, Japan Expressway Holding and Debt<br>Repayment Agency Public Notice No. 12, Appended<br>Table 2)  |
| Water Supply Service Act  |                                  | Harmful substance (Act Article 4(2)), Water quality<br>standards (Ministerial Ordinance No. 101 of 2003)   |
| <b>Section 16 – OTHER INFORMATION</b>   |                                  |  |
| Information Contact   |                                  | Shimadzu Diagnostics Corporation<br>TEL +81-3-5846-5613<br>FAX +81-3-5846-5619<br>Email yakuji@sdc.shimadzu.co.jp  |
| Other Property  |                                  | The concentration or its range described in the<br>COMPOSITION / INFORMATION ON INGREDIENTS<br>is an example calculated based on the compounding<br>amount at production, and the concentration in the<br>product is not guaranteed. The total value may not<br>be 100% due to rounding. |

The descriptions are based on the materials, information and data currently available in accordance with the laws and regulations applicable in Japan, but no guarantees are made regarding their content, physicochemical properties, dangers or hazards.

The precautions are for normal handling. For special handling, implement safety measures appropriate for the application and usage.

For general precautions, precautions for use or handling, or disposal precautions, etc., please read the label and instruction manual carefully before using the product.