



Safety Data Sheet

1 PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product Name | KOD SYBR [®] qPCR Mix |
| Product Code | QKD-201, QKD-201T |
| SUPPLIER | |
| Name | TOYOBO Co., Ltd. |
| Address | 2-2-8 Dojima Hama Kita-ku Osaka, 530-8230 Japan |
| Department | Biotech support Department |
| Emergency Telephone No. | +81-6-6348-3786 |
| Fax No. | +81-6-6348-3833 |
| Recommended use and restrictions on use | Real-Time PCR kit (Reagent for research) |

2 HAZARDS IDENTIFICATION

| | |
|------------------------|---|
| Most Important Hazards | Few adverse human health effects are anticipated. |
| Specific Hazards | Not available |
| GHS Classification | Classification not possible |

3 COMPOSITION / INFORMATION ON INGREDIENTS

| | | |
|---|---|------------------|
| Chemical Product (Substance/Mixture) | Mixture | |
| Chemical Nature | Aqueous solution of enzyme, substrate, etc. | |
| Parts Name | Main components | CAS No. (EC NO.) |
| KOD SYBR [®] qPCR Mix | Tris(Hydroxymethyl)aminomethan | 77-86-1 |
| | Deoxyadenosine triphosphate | 1927-31-7 |
| | Deoxycytidine triphosphate | 102783-51-7 |
| | Deoxyguanosine triphosphate | 93919-41-6 |
| | Deoxythymidine triphosphate | 18423-43-3 |
| | Additive | Nondisclosure |
| | Taq DNA polymerase | (EC 2.7.7.7) |
| | monoclonal antibody | - |
| | SYBR [®] Green I | 163795-75-3 |
| 50× ROX Reference Dye | ROX Reference Dye | - |
| Components Contributing to the Hazard | | |
| Common Chemical Name (or Generic Name) | Additive | |
| Synonyms | Nondisclosure | |
| Contained Parts:Percentage | KOD SYBR [®] qPCR Mix | |
| Chemical formula | Nondisclosure | |
| CAS No. | Nondisclosure | |

4 FIRST-AID MEASURES

| | |
|--------------|--|
| Inhalation | In case of irritation by inhaling this product, move affected person to fresh air and await recovery. If irritation persists, seek immediate medical |
| Skin Contact | Wash with clean water, immediately. |
| Eye Contact | Flush eyes with clean water for more than 15 minutes, and seek medical |
| Ingestion | Induce vomiting. |
| | If indisposition continues, seek medical attention. |

5 FIRE-FIGHTING MEASURES

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|-----------------------------|--|
| Extinguishing Media | Water, Carbon Dioxide, Foam, Dry Chemical Powder |
| Protection of fire-fighters | Fire-fighting should be done from the windward side of fire area. Fire-fighters should wear proper protective equipment in case of large scale fire. |



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6 ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------|---|
| Personal Precautions | Wear protective gear to avoid eye/skin contact and inhalation. |
| Environmental Precautions | Avoid disposition to the environment. |
| Methods for Cleaning up | Use cloth, paper or anything similar to soak up the solution leaking out of the container. Take up under vacuum using dust collecting filter. |

7 HANDLING AND STORAGE

HANDLING

| | |
|----------------------|--|
| Technical Measures | Wear protective equipments and avoid contact with eyes and skin. Handle with ventilation and local exhaust system. |
| Precautions | Avoid substance contact .After handling, wash with clean water. |
| Safe Handling Advice | Good laboratory technique should be used when handling this product. |

STORAGE

| | |
|-----------------------|--------------------------------|
| Technical Measures | Store in the laboratory bottle |
| Storage Conditions | Store at about -20°C |
| Incompatible Products | Oxidizers |
| Packaging Materials | Store in the original package |

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION

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|----------------------|--|
| ENGINEERING MEASURES | Set up good ventilation and exhaust system in the work area. |
|----------------------|--|

Control Parameter

| Limit Values | Additive |
|--------------|-----------------|
| JSOH OEL | Not established |
| ACGIH TLV | Not established |
| OSHA PEL | Not established |

PERSONAL PROTECTIVE EQUIPMENT

| | |
|--------------------------|--|
| Respiratory Protection | Wear a dust mask. |
| Hand Protection | Chemical safety gloves. |
| Eye Protection | Chemical safety goggles. |
| Skin and Body Protection | Long sleeves to prevent contact with skin. |

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------|--|
| Physical State | Liquid |
| Colour | None |
| Odour | None |
| pH | 7.0-9.0 |
| Flash Point | No flammability due to aqueous solution, but additive whose flash point 131°C may stay behind after volatilization KOD SYBR® qPCR Mix. |
| Boiling Point | Not available |
| Melting Point | Not available |
| Decomposition Temperature | Not available |
| Specific gravity | 1.0-1.2 |
| Solubility | Soluble in water |

10 STABILITY AND REACTIVITY

| | |
|---------------------------------|---|
| Stability | Stable at -20°C |
| Possible Hazardous Reactions | None |
| Conditions to Avoid | Strong heat |
| Material to Avoid | Direct sunlight, strong oxidizers and strong reducers |
| Hazardous Decomposition Product | Not available |

11 TOXICOLOGICAL INFORMATION

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|----------------|--|
| Acute Toxicity | Not available |
| Local Effects | May cause eye and skin irritation. May cause respiratory and digestive tract irritation. |



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12 ECOLOGICAL INFORMATION

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|---------------------------|---|
| Mobility | Soluble in water and diffusible into water environment. |
| Persistence/Degradability | Not available |
| Bioaccumulation | Not available |

13 DISPOSAL CONSIDERATIONS

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|------------------------|---|
| Waste from Residues | Dispose of in accordance with all applicable local and national laws and regulations. |
| Contaminated Packaging | Dispose of in accordance with all applicable local and national laws and regulations. |

14 TRANSPORT INFORMATION

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|---------------------------|--|
| International Regulations | |
| UN Classification Number | Not classified |
| | Follow all of the laws and regulations in your respective country. |
| Specific Precautions | To prevent packages from breaking, handle with care. |

15 REGULATORY INFORMATION

Follow all of the laws and regulations in your country.

16 OTHER INFORMATION

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|--------|--|
| Notice | This product is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The information in this MSDS, to the best of our knowledge, is accurate and correct. However, TOYOBO makes no warranty and assumes no liability whatsoever in connection with any use of this information. The information shall not be taken as being all inclusive and is to be used only a guide. All materials and mixtures may be present unknown hazards and should be used with caution. The MSDS is subject to revision as new information becomes available. |
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