



Multiplexed Diagnostics | Affordable Healthcare

## **SAFETY DATA SHEET (SDS) ACCORDING TO GHS AND CLP**

### **MASTERMIX TUBES AND REAGENT CASSETTES**

**THIS PRODUCT IS CONSIDERED NON-HAZARDOUS.** This product does not contain more than 1% of a component classified as hazardous and does not contain more than 0.2% of a component classified as carcinogenic in the GHS and CLP Regulation (EC) No 1272/2008. Therefore, per Global Harmonised Standards (GHS) ST/SG/AC.10/30/Rev.6, OSHA 29CFR1910.1200, Commonwealth of Australia [NOHSC: 1005, 1008(1999)], and the latest amendments to the Regulation (EC) No 1272/2008, this product does not require a Safety Data Sheet (SDS) or Material Safety Data Sheet (MSDS).

## 1.IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE SUPPLIER.

### 1.1 PRODCT NAME

The Mastermix and reagent cassettes are used for the same purpose and contain similar components, however they are packaged differently.

See below for relevant products. These products have only minor differences in their composition.

Products with RNA in their product description contain a reverse transcriptase enzyme. The other product differences refer only to volume differences.

REF (Cat. no.)	Description	REF (Cat. no.)	Description
40220DNA	Medium Volume DNA Mastermix	40320RNA	Medium Volume RNA Mastermix
40230DNA	Low Volume DNA Mastermix	40330RNA	Low Volume RNA Mastermix
40240DNA	Demi (Half) Volume DNA Mastermix	40340RNA	Demi (Half) Volume RNA Mastermix
40231DNA	Low Volume DNA Reagent Cassettes	40331RNA	Low Volume RNA Reagent Cassettes
40241DNA	Demi (Half) DNA Reagent Cassettes	40341RNA	Demi (Half) RNA Reagent Cassettes
40221DNA	Medium Volume DNA Reagent Cassettes	40321RNA	Medium Volume RNA Reagent Cassettes

### 1.2 OTHER MEANS OF IDENTIFICATION

N/A

### 1.3 RECOMMENDED USE

Products are for use on MT-PCR systems.

### 1.4 TECHNICAL ENQUIRIES

For assistance or if any issues recur, please contact AusDiagnostics.

Email: [info@ausdiagnostics.com](mailto:info@ausdiagnostics.com)



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## 2. HAZARDS IDENTIFICATION

### 2.1 GHS CLASSIFICATION AND NATIONAL OR REGIONAL INFORMATION

THIS PRODUCT IS CONSIDERED NON-HAZARDOUS. Per OSHA 29CFR1910.1200, Commonwealth of Australia [NOHSC: 1005, 1008(1999)], and the latest amendments to the Regulation (EC) No 1272/2008, this product does not require a Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS).

This product does not contain more than 1% of a component classified as hazardous and does not contain more than 0.2% of a component classified as carcinogenic in GHS and Regulation (EC) No 1272/2008. Despite the classification of certain products/components as non-hazardous, we strongly recommend using prudent laboratory practices: avoiding unnecessary contact and use of personal protective equipment (PPE), which may include gloves, eye protection, and lab coats, during the use of any laboratory reagent.

AusDiagnostics shall not be held liable for any damages resulting from handling or from contact with the above product.

### 2.2 GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

- Pictogram: N/A
- Signal Word: N/A
- Hazard Statements: N/A
- Precautionary statements: N/A

### 2.3 OTHER HAZARDS

N/A

## 3. COMPOSITION/ INFORMATION ON INGREDIENTS

### 3.1 MIXTURES

There are no chemicals present in this product that are above their cut-off values which are classified as hazardous or carcinogenic present.

Description, Enzymes in buffer required for Polymerase Chain Reaction (PCR).

Major Constituent, PCR enzymes and buffer.

Synonyms, master mix buffer, mastermix, PCR buffer, reaction buffer.

CAS #, None.

Dangerous Components, None.

Contains, C, H, N, O, P. May contain S.

## 4. FIRST AID MEASURES

### 4.1 DESCRIPTION OF NECESSARY MEASURES, ACCORDING TO DIFFERENT ROUTES OF EXPOSURE

- After Inhalation, Remove to fresh air. If irritation persists seek medical attention.
- After ingestion, After ingestion: Do not induce vomiting. Wash mouth out with water, provided the person is conscious. Seek medical attention immediately.
- After Contact with Skin, Immediately wash with soap and copious amounts of water. If irritation is present get medical attention.
- After Contact with Eyes, Immediately flush eyes with copious amounts of water for several minutes. Consult a doctor immediately.

## **4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED**

May cause skin, eye and respiratory irritation.

To the best of our knowledge the symptoms/effects, acute and delayed of exposure to Mastermix substance have not been fully investigated, however skin contact, eye contact and ingestion should be avoided.

## **4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS**

There is no specific antidote. Treat symptomatically and supportively.

## **5. FIRE FIGHTING MEASURES**

### **5.1 SUITABLE EXTINGUISHING MEDIA**

Water spray, CO<sub>2</sub> or dry chemical powder. Large fires should be confronted with water spray or alcohol resistant foam.

### **5.2 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL**

No data is available for specific hazards of this product as a whole. Mastermix Tubes and Reagent Cassettes ver 01 only contains (2*R*,3*S*)-1,4-Bis(sulfanyl)butane-2,3-diol (dithioerythritol) in a non hazardous concentration.

Specific Hazards, Emits toxic fumes under fire conditions.

### **5.3 FIRE FIGHTING PROTECTIVE MEASURES**

Wear protective clothing to prevent contact with the skin and eyes.

Wear self contained breathing equipment to prevent inhalation of explosive or combustion gases.

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Wear appropriate protective clothing and chemically compatible gloves. Place spillage in appropriate container for waste disposal and ensure ventilation is adequate.

### **6.2 ENVIRONMENTAL PRECAUTIONS**

Do not dispose to surface, ground water or sewers.

### **6.3 METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN UP**

Use a liquid-binding material (e.g. sand, sawdust, diatomite etc.) to absorb the spillage.

Place in closed containers for disposal. Ventilate area well after clean-up procedures have taken place.

Wear personal protection equipment (PPE) as outlined in Section 8.

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

## **7. HANDLING AND STORAGE**

### **7.1 PRECAUTIONS FOR SAFE HANDLING**

This product is only to be used by trained personnel in qualified laboratories. Observe all federal, state and local regulations. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Use prudent laboratory practices for handling and storage of chemical substances of unknown toxicity.

### **7.2 CONDITIONS FOR SAFE STORAGE**

This product must be stored below -20 °C (see applicable product label and IFU).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS, INGREDIENTS WITH EXPOSURE LIMIT VALUES

N/A.

### 8.2 ENGINEERING CONTROL MEASURES

N/A (see section 7).

### 8.3 INDIVIDUAL PROTECTION MEASURES, PERSONAL PROTECTION EQUIPMENT

- Respiratory Protection, N/A.
- Hand Protection, Gloves should be worn, either rubber or chemical resistant.
- Eye Protection, Wearing safety goggles is advised, as is the availability of eye-wash stations.
- Skin Protection, Lab coats should be worn during handling. Safety deluge showers should be available. User must wear appropriate protective gloves to prevent contact with this material.
- Hygiene Practices, Avoid contact with skin or eyes, do not place in mouth.  
Do not eat, drink or smoke when handling this product. Upon completion of the use of this product, dispose of protective gloves safely and wash hands thoroughly with soap and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Details
Physical State	Liquid
Colour	Step 1 - colourless Step 2 - pale orange
Odour	odourless
Melting point/freezing point	No data available
Boiling point/Boiling range	No data available
Flammability	No data available
Lower and upper explosion limit/ flammability limit	No data available
Flash point	No data available
Auto-ignition temperature	Product is not self-igniting
Decomposition temperature	No data available
pH	No data available
Kinematic viscosity	No data available
Solubility	Fully water soluble
Partition coefficient	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available

Particle characteristics	No data available
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## 10. STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Dangerous Reactions, Avoid contact with strong oxidising agents.

### 10.2 CHEMICAL STABILITY

Product is stable under normal handling and storage conditions (below -20°C, as per product label and IFU). Avoid excess heat, flame and pressure.

### 10.3 HAZARDUS REACTIONS

Not known.

### 10.4 CONDITIONS TO AVOID

No dangerous reactions known if used according to specifications. Do not use in temperatures above -20°C.

### 10.5 INCOMPATIBLE MATERIALS

Not known.

### 10.6 HAZARDUS DECOMPOSITION PRODUCTS

Not known.

## 11. TOXICOLOGICAL INFORMATION

Concise but complete and comprehensible description of the various toxicological (health) effects and the available data used to identify those effects.

### 11.1 INFORMATION ON THE LIKELY ROUTES OF EXPOSURE

- Inhalation, may be harmful if inhaled. May cause respiratory tract irritation
- Skin, may be harmful if absorbed through skin, may causes skin irritation
- Eyes, may cause eye irritation
- Ingestion, may be harmful if swallowed

### 11.2 SYMPTOMS RELATED TO THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES

To the best of our knowledge the chemical, physical and toxicological properties have not been fully investigated.

Acute Health Effects:	N/A
Chronic Health Effects:	This product does not contain any hazardous components above 1% or any carcinogens above 0.2% as defined in GHS and CLP.
Carcinogenic Effects:	N/A
Mutagenic Effects:	N/A
Teratogenic Effects:	N/A
Developmental Toxicity:	N/A
Hazards:	N/A

### 11.3 SIGNS AND SYMPTOMS OF EXPOSURE

- Acute toxicity, no data available.

- Irritation and corrosion, no data available.
- Sensitisation, no data available.
- Chronic exposure, no data available.

#### **11.4 NUMERICAL MEASURES OF TOXICITY**

No data available.

### **12. ECOLOGICAL INFORMATION**

#### **12.1 ECOTOXICITY EFFECTS**

No data available.

#### **12.2 ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)**

No data available.

#### **12.3 BIOACCUMULATIVE POTENTIAL**

No data available.

#### **12.4 MOBILITY IN SOIL**

No data available.

#### **12.5 OTHER ADVERSE EFFECTS**

No data available.

### **13. DISPOSAL CONSIDERATIONS**

#### **13.1 PRODUCT DISPOSAL**

- Disposal must be made according to regional and national regulations.
- Must not be disposed together with household waste.
- Do not allow product to reach sewage system.

#### **13.2 CONTAMINATED PACKAGING DISPOSAL**

Contaminated packaging should be disposed of according to official regulations.

### **14. TRANSPORT INFORMATION**

Shipment is made as a non-regulated material. No transportation restrictions apply.

The acute toxicity profile does not warrant shipment as a hazardous material (DOT) or a dangerous good (IATA).

#### **14.1 UN NUMBER**

N/A

#### **14.2 UN PROPER SHIPPING NAME**

- ADR / RID, No hazardous good
- IMDG-Code / ICAO-TI / IATA-DGR, None

#### **14.3 TRANSPORT HAZARD CLASS**

Land, Maritime, and Air Transport, Not dangerous goods

#### **14.4 PACKING GROUP**

N/A

#### **14.5 ENVIRONMENTAL HAZARDS**

N/A

#### 14.6 TRANSPORT IN BULK (ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE)

N/A

#### 14.7 SPECIAL PRECAUTIONS FOR USER

N/A

### 15. REGULATORY INFORMATION

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

The toxicological properties of this material have not been investigated.

EU-Regulations, Regulation (EC) No 1272/2008

Labelling According to EU Guidelines

National regulations, Not determined

Other relevant regulations, Global Harmonised Standards (GHS)

### 16. DISCLAIMER

The information provided in this Safety Data Sheet (SDS) is accurate to the best of our present knowledge. However, this does not constitute a guarantee for any specific product features.

All substances and preparations may present unknown hazards and should be used with caution.

AusDiagnostics shall not be held liable for any damage resulting from the handling of or from contact with the above product. The information supplied in this SDS shall not establish a legally valid contractual relationship.

### 17. DOCUMENT HISTORY

Document ID of SDS	Date of Change	Changes
SDS-MM-RC-r10	01 Dec 2019	Reagent Cassettes have been added. Change of format to the document, and update contact details.
SDS-Mastermix-r09	13 Feb 2018	Added mention of the CLP Regulation (Regulation (EC) No 1272/2008 which replace the current rules on classification, labelling and packaging of substances (Directive 67/548/EEC) and mixtures (Directive 1999/45/EC).
SDS-Mastermix-r08	04 Dec 2017	Manufacturer address updated
SDS-Mastermix-r07.1	03 Oct 2017	Minor correction - Document History; previous document ID corrected
SDS-Mastermix-r07	28 Sep 2017	<b>IMPORTANT:</b> No new warnings or updates to safe use of product. Instrument name updated to <i>High-Plex 24 System</i> and <i>Ultra-Plex 48 system</i> consisting of MT Processor and MT Analyser. No new warnings or updates to safe use of product. High Mastermix products (40210 and 40310) removed as they are no longer produced by AusDiagnostics
SDS-Mastermixr06	11 Nov 2016	<b>IMPORTANT:</b> No new warnings or updates to safe use of product. Changes made to comply with the GHS revision 6.