



## 1. Identification of the Product and of the Supplier

• **Product Identifier:** MolecuTech® Real-Time COVID-19

• **Manufactured By:** YD Diagnostics Corp.

**Address:** (76, seori-ro, Idong-myeon, Cheoin-gu, Yongin-si, Gyeonggi-do 449-834 REPUBLIC OF KOREA)

**Emergency Phone Number:** Tel : (82) 31-329-2000 Fax : (82) 31-329-2007

\***Distributed By:** BioSys Laboratories, Inc.

**Address:** 526 Mission Street, South Pasadena, CA 91030

**Emergency Phone Number:** (626) 403-6565

\***Recommended Use:** Reagent for In-vitro diagnostic only

## 2. Hazard(s) Identification

- **Physical State:** Liquid/Liquid/Liquid/Liquid/
- **Appearance:** blue/colorless/pink/ colorless
- **Emergency Overview:** Caution – may cause skin and eye irritation
- **OSHA Regulatory Status:** Not classified

## 3. Composition/Information on Ingredients

Components	Ingredient(s)	Concentration (Weight %)
2 X RT-PCR Premix	MMLV Reverse Transcriptase	≤1
	Taq DNA Polymerase	≤1
	RNA Inhibitor	≤0.5
	dNTPs	≤3
	MgCl <sub>2</sub>	≤30
	Tris	≥64
	Bromophenol blue	≤0.5
	Total	100
Positive Control	RdRP, E gene, RPP 30	≥5
	Sterile purified water	≥95



	Total	100
Primer/Probe Mixture	RT-1-nCoV	≤1
	RT-2-nCoV	≤1
	RT-3-nCoV	≤1
	RT-4-nCoV	≤1
	RT-5-nCoV	≤1
	RT-6-nCoV	≤1
	RT-7-nCoV	≤1
	RT-8-nCoV	≤1
	RT-9-nCoV	≤1
	TE Buffer	≥91
	Total	100
Ultra Pure Water	Sterile purified water	100
	Total	100

## 4. First Aid Measures

• **Inhalation:**

- If exposed or concerned: Get medical advice/attention.
- Remove victim to fresh air.

• **Eye contact:**

- If in eye: Rinse thoroughly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

• **Skin contact:**

- If on skin: Rinse thoroughly with water for several minutes

• **Ingestion:**

- Do not give milk or alcoholic beverages.
- Do not give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.
- Rinse mouth with water.

• **General advice:**



- Consult with a physician when making any emergency treatment procedure.
- Submit SDS to medical staff to take protective action.

## 5. Fire-fighting Measures

- ***Suitable (unsuitable) extinguishing media***
  - When extinguishing by smothering, use dry sand or soil.
- ***Hazardous combustion products:***
  - While burning, a very stimulating and poisonous gas can be produced by thermal decomposition or combustion.
- ***Special protective equipment and precautions for fire-fighters:***
  - May get severe burns on skin and eyes upon contact with melting substances.
  - Extinguish fire by keeping a safe distance away.
  - Wear full protective clothing including self-contained breathing apparatus.

## 6. Accidental Release Measures

- ***Personal precautions***
  - Do not touch damaged containers or spilled material without suitable protective clothing.
- ***Environmental precautions***
  - Prevent entry into sewers, basements, channels or confined spaces.
- ***Methods for Cleaning Up***
  - Store reagent strips in a closed container

## 7. Handling and Storage

- ***Precautions for safe handling***
  - Wash hands thoroughly after handling. Observe good industrial hygiene practices.
- ***Conditions for safe storage***
  - Do not store in the refrigerator or freezer. Store at temperatures between 59F to 86F.

## 8. Exposure Controls and Personal Protection



- **Occupational exposure limits:** No exposure limits noted for ingredients
- **Engineering controls:** N/A
- \* **Hand protection**
  - Gloves should be worn to avoid hand contact.
- **Eye protection**
  - Safety goggles should be worn to avoid contact on eyes.
- **Skin and body protection**
  - Wear protective clothing and equipment in order to avoid repeated contact on skin.
- **Hygiene measures**
  - Wash after handling and launder contaminated clothes before reuse.

## 9. Physical and Chemical Properties

- \* **Appearance:** Liquid
- \* **Upper/lower flammability or explosive limits:** Not available
- \* **Odor:** Odorless
- \* **Odor Threshold:** Not applicable
- \* **Vapor Pressure:** Not available
- \* **Vapor Density:** Not available
- \* **pH:** Not available
- \* **Relative density:** Not available
- \* **Melting point/freezing point:** Not available
- \* **Solubility:** Not available
- \* **Initial boiling point and range:** Not available
- \* **Flash point:** Not available
- \* **Evaporation rate:** Not available
- \* **Flammability, upper/lower flammability or explosive limits:** Not available
- \* **Partition coefficient (n-octanol/water):** Not available
- \* **Auto-ignition temperature:** Not available
- \* **Decomposition temperature:** Not available
- \* **Viscosity:** Not applicable

## 10. Stability and Reactivity



• **Chemical stability:**

- Stable at normal temperature and pressure conditions.
- Does not ignite readily.
- Harmful if inhaled

• **Other:** Avoid contact with combustible materials. Hazardous polymerization does not occur.

## 11. Toxicological Information

• **Information on the likely routes of exposure:** Inhalation, skin/eye contact

• **Health Hazard Information**

- **Acute toxicity:** No data available

• **Delayed and immediate effects and also chronic effects from short and long term exposure:**

- Skin corrosive or irritant: No data available
- Serious eye damage or irritant: No data available
- Respiratory sensitization: No data available
- Carcinogenicity: No data available
- Germ cell mutagenicity: Not applicable
- Reproduction-toxicity: Not applicable
- Specific target organ toxicity - single exposure: No data available
- Specific target organ toxicity - repeated exposure: No data available
- Aspiration hazard: No data available
- Ministry of Labor examination: No data available
- IARC : No data available
- OSHA: No data available
- ACGIH: No data available

## 12. Ecological Information

• **Ecotoxicity**

- No data available

• **Degradability:**

- No data available .

• **Persistence:**

- No data available .

• **Bioaccumulation:**

- No data available .



- **Mobility:**
  - No data available .

### 13. Disposal Considerations

- **Waste disposal**
  - Disposal should be in accordance with applicable regional, national and local laws and regulations
- **Disposal considerations**
  - Dispose of the contents of the container (in accordance with the laws and regulations set forth above).

### 14. Transport Information

- **This product is not classified as dangerous goods under UN Model Regulations.**
  - International Maritime Organization (IMDG)
  - International Air Transport Association (IATA)

<b>UN number</b>	- UN transportation hazard classification no information
<b>UN Proper shipping name</b>	- Not applicable
<b>Transport hazard class(es)</b>	- Not applicable
<b>Packing group</b>	- Not applicable
<b>Marine pollutant</b>	- Not applicable
<b>Label Required</b>	- Not applicable
<b>Mark Required</b>	- Not applicable

### 15. Regulatory Information

- **National and/or international regulatory information**
  - < **Regulation by the Occupational Safety and Health Act** >
    - Not applicable
  - < **Regulation by the Toxic Chemicals Control Act** >
    - Not applicable



< **Regulation by Dangerous Goods Safety Management Act** >

- Not applicable

< **Regulation by Waste Management** >

- Not applicable

• **U.S. Federal regulations (US Federal):**

- Not applicable.

• **U.S. Federal regulations (CERCLA Hazardous Substances and Corresponding RQs):**

- Not applicable.

• **U.S. Federal regulations (SARA Section 302 Extremely Hazardous Substances):**

- Not applicable.

• **U.S. Federal regulations (SARA 311/312 Hazards):**

- Not applicable.

• **U.S. Federal regulations (OSHA):**

- Not applicable.

• **U.S. Federal regulations (European/International Regulations):**

- Not applicable.

## 16. Other Information

• **Date of first Preparation:** 2020.04.01

• **Version Number:** 00

• **Date of last Revision:** -

• **Other information**

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