

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: U-TOP™ COVID-19 Detection Kit
Catalog Number: SS-9011
Purpose: In Vitro Diagnostic (IVD) Device
Supplier: SEASUN BIOMATERIALS Inc.
N317, 11-3, Techno 1-ro, Yuseong-gu, Daejeon, Korea
Tel: +82-42-716-0301

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name: Synthetic Peptide Nucleic acid, Primer mix

Component	CAS Number
Hazardous components <1%	None

3. HAZARDS IDENTIFICATION

Emergency Overview: May cause irritation to skin, eyes, gastrointestinal and respiratory systems.

4. FIRST AID MEASURES

Inhalation Move to uncontaminated area. If not breathing, give artificial respiration. Get medical attention immediately.

Skin contact Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion If swallowed, wash out mouth with water and get medical attention.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY None

EXTINGUISHING MEDIA Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s) Emits toxic fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL: Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S): Wear respirator, chemical safety goggle, rubber boots and heavy rubber gloves.

METHODS FOR CLEANING UP: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND SOTRAGE

Storage Suitable: Keep tightly closed. Store at -15°C to -20°C
Handling User Exposure: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering control Mechanical exhaust required. Safety shower and eye bath.
General hygiene measures Wash thoroughly after handling.
Exposure limits No occupational exposure limits established.
Personal protective equipments Eyes: Wear chemical safety goggles.
Hands: Wear compatible chemical-resistant gloves.
Respiratory: Wear government approved respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
ODOR: None
BOILING POINT: 100°C
MELTING POINT: -10°C
VAPOR DENSITY: 2.71 ((air=1))
SPECIFIC GRAVITY: 1.1 ((water=1))

WATER SOLUBILITY: 25.3 g/100 ml
PH: 8.3
FLASHING POINT: 160°C
STEM PRESSURE: 0.0025 mmHg
EVAPORATION RATE: N/A
COEFFICIENT OF WATER/OIL DISTRIBUTION: N/A

10. STABILITY AND REACTIVITY

Reactivity Stable under recommended storage conditions.
Conditions to avoid Avoid heat
Incompatibilities Strong acids, strong oxidizing materials
Hazardous decomposition Carbon monoxide, Carbon dioxide, Sulfur dioxides
Polymerization Will not occur

11. TOXICOLOGICAL INFORMATION

Health effects ADDITIONAL DATA: The toxicological properties have not been fully investigated
Inhalation ACUTE EXPOSURE: May cause irritation. CHRONIC EXPOSURE: No data available
Skin contact ACUTE EXPOSURE: May cause irritation. CHRONIC EXPOSURE: No data available
Eye contact ACUTE EXPOSURE: May cause irritation. CHRONIC EXPOSURE: No data available
Ingestion ACUTE EXPOSURE: May cause irritation CHRONIC EXPOSURE: No data available

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATION

Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

US Department of transportation:	Not	dangerous	good
LAND TRANSPORT ADR:	Not	dangerous	good
LAND TRANSPORT RID:	Not	dangerous	good
AIR TRANSPORT IATA:	Not	dangerous	good
AIR TRANSPORT ICAO.	Not	dangerous	good
MARITIME TRANSPORT IMDG.	Not	dangerous	good

15. REGULATORY INFORMATION

U.S. REGULATIONS:	CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated. SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated. SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40): Not regulated. SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21): ACUTE: No CHRONIC: No FIRE: No REACTIVE: No SUDDEN RELEASE: No SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated. OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.
NATIONAL INVENTORY STATUS:	U.S. INVENTORY (TSCA): Not listed on inventory. For purposes of 40 CFR 720.36, this product is for Research and Development (R&D) Use Only. TSCA 12(b) EXPORT NOTIFICATION: Not listed.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

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