

# Safety Data Sheet

## StickE Column Blood DNA Isolation Kit

### Section 1: Identification

#### Product Details

- Product Identifier: StickE Column Blood DNA Isolation Kit
- Catalog Number: STCKE-B5
- Component Names:

Buffer B1
Buffer B2
Buffer ProK
Buffer STE

- Manufacturer: MatMaCorp  
6400 Cornhusker Highway  
Suite 300  
Lincoln Nebraska, 68507  
United States of America  
+1(402)742-0357
- Further information obtainable from: MatMaCorp Sales & Support  
+1(402)387-7900
- Recommended use: For research use only.

### Section 2: Hazards Identification

#### Classification

- Oxidizing solids (Category 1) - H271
- Acute toxicity, Oral (Category 4) - H302
- Specific target organ toxicity, Repeated exposure (Category 2) - H373
- May cause allergy or asthma symptoms or breathing difficulties if inhaled - H334

#### Hazard Statements

- May cause fire or explosion; strong oxidiser H271

- Harmful if swallowed H302
- Causes serious eye irritation - H319
- May cause damage to organs through prolonged or repeated exposure - H373
- May cause allergy or asthma symptoms or breathing difficulties if inhaled - H334

#### Precautionary Statements

- Wear protective gloves/protective clothing/eye protection/face protection P280
- Keep away from heat - P210
- Wash skin thoroughly after handling - P264
- IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing - P305+P351+P338
- IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell - P301+P312+P314
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P370+P378
- Dispose of contents/ container to an approved waste disposal plant - P501

Signal Word: DANGER



## Section 3: Information on Ingredients

### B1 Buffer

<b>Components</b>	<b>CAS Number</b>	<b>Composition (w/w)</b>
Guanidine hydrochloride	50-01-1	10-50%
Tween 20	9005-64-5	1-5%
Ethylenediaminetetraacetic acid	60-00-4	5-10%

### B2 Buffer

<b>Components</b>	<b>CAS Number</b>	<b>Composition (w/w)</b>
Guanidine hydrochloride	50-01-1	50-100%

### ProK Buffer

<b>Components</b>	<b>CAS Number</b>	<b>Composition (w/w)</b>
Proteinase K	39450-01-6	1-5%
Glycerol	56-81-5	10-50%

### STE Buffer

<b>Components</b>	<b>CAS Number</b>	<b>Composition (w/w)</b>
Tris	77-86-1	Less than 1%

## Section 4: First-Aid Measures

- General advice- Consult a physician. Show this safety data sheet to the doctor in attendance.
- Eye contact- Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician if symptoms are severe or persistent.
- Skin contact- Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician if symptoms are severe or persistent.
- Inhalation- Move to fresh air. If not breathing, give artificial respiration or oxygen. Consult a physician if symptoms are severe or persistent.
- Ingestion- Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Clean mouth with water and afterwards drink plenty of water.
- Treat symptomatically

## Section 5: Fire-Fighting Measures

- Suitable extinguishing media: Use water spray, alcohol-resistant foam, or carbon dioxide
- Special hazards: No information available
- Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary and full protective gear
- Hazardous combustion products: Carbon oxides, Nitrogen oxides, Hydrogen Bromide gas, ammonia, Sodium oxides and hydrogen chloride
- Further information: Do not use halocarbon extinguishers

## Section 6: Accidental Release Measures

- Personal Precautions: Avoid contact with skin, eye and clothing. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas and avoid breathing vapors, mist or gas.
- Methods for Containment: Prevent further leakage or spillage if safe to do so.
- Methods for Cleaning up: Cover with dry lime or soda ash. Wash spill site after material pickup is complete.

## Section 7: Handling and Storage

### Precautions for Safe Handling

- Wear appropriate personal protective equipment
- Handle in accordance with good industrial hygiene and safety practice
- Keep container sealed when not in use

### Conditions for Safe Storage

- Keep container tightly closed and upright
- Store in a cool, dry location away from oxidizing agents

## Section 8: Exposure Controls and Personal Protection

### Engineering Controls

- Showers
- Eye Wash Stations
- Ventilation Systems

### Personal Protective Equipment (PPE)

- Eye and Face Protection
  - Avoid contact with eyes. Wear safety glasses.
- Respiratory Protection
  - If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.
- Skin and Body Protection
  - Wear protective gloves.
- Hygiene Measures
  - Handle in accordance with good industrial hygiene and safety practice
  - Wash hands before breaks and at the end of the workday

## Section 9: Physical and Chemical Properties

- |                                    |                         |
|------------------------------------|-------------------------|
| – Appearance:                      | Colorless               |
| – Physical State:                  | Liquid and Solid Pellet |
| – Upper/lower flammability limits: | No data available       |
| – Odor:                            | No data available       |
| – Vapor pressure:                  | No data available       |
| – Odor threshold:                  | No data available       |
| – Vapor density:                   | No data available       |
| – pH:                              | No data available       |
| – Relative density:                | No data available       |

- Melting point/freezing point: No data available
- Solubility: No data available
- Initial boiling point and boiling range: No data available
- Flash point: No data available
- Evaporation rate: No data available
- Flammability: No data available
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity: No data available

## Section 10: Stability and Reactivity

- Chemical Stability: Stable under recommended storage conditions
- Reactivity: None under normal processing
- Conditions to avoid: Extremes of temperature
- Materials to avoid: Strong oxidizing agents, flammable substances, organics, metal powders
- Hazardous Decomposition Products: None under normal processing

## Section 11: Toxicological Information

### Acute Toxicity

- LD50 Oral: No Information Available
- LD50 Dermal: No Information Available
- LD50 Inhalation: No Information Available

### Carcinogenicity

- Not carcinogenic

### Target Organ Effects

- No Information Available

## Section 12: Ecological Information

### Ecotoxicity

- Toxic to fish:
  - No Information Available
- Toxic to Crustacea:
  - No Information Available
- Bioaccumulative potential:
  - No Information Available
- Persistence and degradability:
  - No Information Available

## Section 13: Disposal Considerations

- Waste Disposal Method: Dispose of material in accordance with all federal, state and local regulations
- Contaminated Packaging: Do not re-use empty containers

## Section 14: Transport Information

- DOT: Not Regulated
- IATA: Not Regulated

## Section 15: Regulatory Information

- Sara 311/312 Hazards: Acute Health Hazard
- Massachusetts Right to Know Components: None
- Pennsylvania Right to Know Components: None
- New Jersey Right to Know Components: None
- California Prop 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

## **Section 16: Other Information**

The above information is believed to be correct but does not claim to be all inclusive. This document shall be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. MatMaCorp shall not be held liable for any damage resulting from handling or from contact with the above product.