

# Safety Data Sheet

## DNA Isolation Kit for Semen

### Section 1: Identification

#### Product Details

- Product Identifier: DNA Isolation Kit for Semen
- Catalog Number: DNA1S
- Component Names:

Buffer SL
Buffer SN
Buffer SE

- 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

- Skin Corrosion (Category 1A) H314
- Serious eye damage (Category 1) H318
- Corrosive to metals (Category 1) H290
- Acute toxicity, Oral (Category 4) H302

#### Hazard Statements

- Causes severe skin burns and eye damage – H314

- May be corrosive to metals – H290
- Harmful if swallowed – H302

**Precautionary Statements**

- Wear protective gloves/protective clothing/eye protection/face protection – P280
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower – P303+P361+P353
- IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor – P304+P340+P310
- IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor – P305+P351+P338+P310
- IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell, rinse mouth – P301+P312+P330
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting – P301+P330+P331
- Keep only in original container – P234
- Do not breathe dust or mist – P260
- Wash skin thoroughly after handling – P264
- Do not eat, drink or smoke when using this product – P270
- Wash contaminated clothing before use – P363
- Absorb spillage to prevent material damage – P390

Signal Word: WARNING



## Section 3: Information on Ingredients

### SL Buffer

<b>Components</b>	<b>CAS Number</b>	<b>Composition (w/w)</b>
Sodium Hydroxide	1310-73-2	1-5%

### SN Buffer

<b>Components</b>	<b>CAS Number</b>	<b>Composition (w/w)</b>
Acetic Acid	64-19-7	5-10%

### SE 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
- Skin contact- Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician
- Inhalation- Move to fresh air. If not breathing, give artificial respiration or oxygen
- 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, dry chemical 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 (NO<sub>x</sub>)
- Further information: Gives off hydrogen by reaction with metals

## 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
- Avoid contact with skin and eyes

### Conditions for Safe Storage

- Keep container tightly closed in a dry and well-ventilated place
- Absorbs carbon dioxide from air

## Section 8: Exposure Controls and Personal Protection

### Engineering Controls

- Showers
- Eye Wash Stations

### 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            |
| – 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: Protect from excessive heat
- Materials to avoid: Oxides, acids, anhydrides, azides, halogens, peroxides, permanganates, amines, nitro compounds, organic materials, magnesium, and copper
- Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides

## Section 11: Toxicological Information

### Acute Toxicity

- LD50 Oral: no data available
- LD50 Dermal: no data available
- LD50 Inhalation: no data available

### Skin Irritation

- Rabbit, Severe Skin Irritation: no data available

### Carcinogenicity

- No Information Available

## Section 12: Ecological Information

### Ecotoxicity

- Toxic to fish: No data available
- Bioaccumulative potential: No data available
- Persistence and degradability: No data 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: Potassium Hydroxide
- Pennsylvania Right to Know Components: Potassium Hydroxide
- New Jersey Right to Know Components: Potassium Hydroxide
- 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.