Safety Data Sheet

DNA Isolation Kit for Hair

Section 1: Identification

Product Details

- Product Identifier: DNA Isolation Kit for Hair
- Catalog Number: DNA1H
- Component Names:

Buffer HL
Buffer HN
Buffer HE

- 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 POSION 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 POSION 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

HL Buffer

Components	CAS Number	Composition (w/w)
Potassium Hydroxide	1310-58-3	0-5%
Tris	77-86-1	Less than 1%
Benzalkonium chloride	63449-41-2	Less than 1%

HN Buffer

Components	CAS Number	Composition (w/w)
Acetic Acid	64-19-7	0-5%

HE Buffer

Components	CAS Number	Composition (w/w)
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 (NOx)
- Further information: Gives off hydrogen by reaction with metals

Section 6: Accidental Release Measures

- Personal Precautions: Avoid contact with skin, eyes 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
- Provide appropriate exhaust ventilation at places where dust is formed
- Hygroscopic

Conditions for Safe Storage

- Keep container tightly closed in a dry and well-ventilated place
- Absorbs carbon dioxide from air
- Air sensitive, strongly hygroscopic

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
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 moisture and 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: 333-5900 mg/kg (Rat)
- LD50 Dermal: 1060 mg/kg (Rabbit)
- LD50 Inhalation: 11.4 mg/L (Rat) 4hr

Skin Irritation

- Rabbit, Severe Skin Irritation: 24hr
- Rabbit, Severe Eye Irritation

Carcinogenicity

- No Information Available

Target Organ Effects

- Skin, eyes, respiratory system, teeth, kidneys

Section 12: Ecological Information

Ecotoxicity

- Toxic to fish:
  - LC 50- Gambusia affinis (mosquito fish) -80 mg/l - 96hr
  - LC 50- Lepomis macrochirus- mg/L -96hr
  - LC 50 Pimephales promelas- mg/L -96hr
- Toxic to Crustacea:
  - EC50- Daphnia magna mg/L- 24hr
  - EC50- Daphnia magna mg/L- 48hr
- 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, Benzalkonium chloride
- New Jersey Right to Know Components: Potassium Hydroxide, Benzalkonium chloride
- 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.