

Safety Data Sheet

DNA Isolation Kit for Plants

Section 1: Identification

Product Details

- Product Identifier: DNA Isolation Kit for Plants
- Catalog Number: DNA1P
- Component Names:

Buffer PL

Buffer PB

Buffer PE

- 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

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

Precautionary Statements

- Wear protective gloves/protective clothing/eye protection/face protection – P280
- Keep away from heat - P210
- Wash skin thoroughly after handling - P264
- 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: **WARNING**

Section 3: Information on Ingredients

PL Buffer

Components	CAS Number	Composition (w/w)
Cetrimonium Bromide	57-09-0	Less than 1%
Ethylenediaminetetraacetic acid	60-00-4	Less than 1%
Sodium Chloride	7647-14-5	10-50%
Tris	77-86-1	1-10%

PB Buffer

Components	CAS Number	Composition (w/w)
Sodium Perchlorate	7601-89-0	10-50%
Glycine	56-40-6	Less than 1%

PE 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 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

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|--|-------------------|
| – 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: 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: Cetrimonium bromide
Benzalkonium chloride
- New Jersey Right to Know Components: Cetrimonium bromide
Sodium Perchlorate
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.