

# Material Safety Data Sheet

According to EC directive 2001/58/EC



FAPDE 002-SP2-S: High Speed Plasmid Midi Kit (2prep), Ion Exchange

**FAVORGEN**  
BIOTECH CORP.

Processing date 01.05.2015

Version 1

Printing date 01.05.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION

Commercial Product Name: FAPDE 002-SP2-S: High Speed Plasmid Midi Kit (2prep), Ion Exchange

Supplier: Favorgen Biotech Corp.

Address: Ping - Tung Agricultural Biotechnology Park No.37, Nong-ke Rd., Ping-Tung 908, Taiwan

Phone Number: 886-8-762-1829

Emergency telephone number: 886-8-762-1829

## 2. CHEMICAL CHARACTERISATION

PM1 Buffer: 1 piece

Contains no hazardous substances in concentrations to be declared

PM2 Buffer: 1 piece

0.2-1 % Sodium hydroxide; CAS-No. 1310-73-2 UN-No. 1823

0.5-2 % Sodium dodecylsulfate; CAS-No. 151-21-3

PM3 Buffer: 1 piece

30-60 % Guanidine-hydrochloride; CAS-No. 50-01-1

PEQ Buffer: 1 piece

30-60 % Guanidine-hydrochloride; CAS-No. 50-01-1

PW Buffer: 1 piece

Contains no hazardous substances in concentrations to be declared

PEL Buffer: 1 piece

Contains no hazardous substances in concentrations to be declared

RNase A: 1 piece

Contains no hazardous substances in concentrations to be declared

## 3. HAZARDS IDENTIFICATION

Warnings: Harmful by inhalation and if swallowed. Irritating to eyes and skin.

Note: slightly hazardous to water and ground.

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## 4. FIRST AID MEASURES

Skin contact: Wash skin with water thoroughly.

Eye contact: Promptly wash eyes with water for at least 15 minutes, if necessary seek medical advice.

Ingestion: Obtain medical attention.

## 5. FIRE-FIGHTING MEASURES

Extinguishing media: No restriction.

Decomposition: Dangerous decomposition is not anticipated.

## 6. ACCIDENTAL RELEASE MEASURES

Actions to be taken on spillage: Sweep up spilled solids carefully. Dilute spilled liquids with plenty of water and adsorb.

Absorbent material: No restriction.

Actions to be taken to limit damage: Special measures to limit damage are not necessary.

## 7. HANDLING AND STORAGE

Handling: Liquid is not inflammable. Liquid is not combustible. Open and handle vessels carefully.

Storage: Store at room temperature.

Do not store together with: No restriction.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection: No personal respiratory protective equipment normally required.

Eye protection: Safety glasses

Hand protection: One-way gloves

Hygiene measures: Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

*PM1 Buffer*

Form: liquid

Miscibility with water: immiscible

pH : 7.6

*PM2 Buffer*

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Form: liquid  
Miscibility with water: immiscible  
pH : 7.0

*PM3 Buffer*

Form: liquid  
Miscibility with water: immiscible  
pH : 4.5

*PEQ Buffer*

Form: liquid  
Miscibility with water: immiscible  
pH : 4.5

*PW Buffer*

Form: liquid  
Miscibility with water: immiscible  
pH : 7.5

*PEL Buffer*

Form: liquid  
Miscibility with water: immiscible  
pH : 8.5

*RNase A*

Form: liquid  
Miscibility with water: immiscible  
pH : 7.0

## 10. STABILITY AND REACTIVITY

Hazardous reactions: none under normal use

Hazardous decomposition products: none

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## 11. TOXICOLOGICAL INFORMATION

### PM2 Buffer

#### *Sodium hydroxide*

Toxicity (others): LD50 intraperitoneal mouse 40 mg/kg

LDLo (oral, rabbit) 500 mg/kg

#### *Sodium dodecylsulfate*

Oral toxicity: LD50 rat 1.288 mg/kg

### PM3 Buffer

#### *Guanidine-hydrochloride*

Oral toxicity: LD50 rat 475 mg/kg

Toxicity (inhalation): LD50 rat 5.3 mg/l (4 h)

Toxicity (others): LD50 intraperitoneal mouse 500 mg/kg

### PEQ Buffer

#### *Guanidine-hydrochloride*

Oral toxicity: LD50 rat 475 mg/kg

Toxicity (inhalation): LD50 rat 5.3 mg/l (4 h)

Toxicity (others): LD50 intraperitoneal mouse 500 mg/kg

Acute toxicity:

Primary irritant effect:

On the skin: irritant to skin and mucous membranes.

On the eye: irritating effect.

Sensitization: No sensitizing effects known.

## 12. ECOLOGICAL INFORMATION

Water hazard class: 1 slightly hazardous to water and ground

## 13. DISPOSAL CONSIDERATIONS

Waste disposal route: Used reagent can be disposed of in the waste water in accordance with local regulations.

Disposal of empty packaging: Dispose of empty packs by local recycling or waste disposal routes if necessary, clean them beforehand.

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## 14. TRANSPORT INFORMATION

- *Land transport ADR/RID (cross-border)*
- *ADR/RID class:* -
- *Maritime transport IMDG:*
- *IMDG Class:* -
- *Marine pollutant:* No
- *Air transport ICAO-TI and IATA-DGR:*
- *ICAO/IATA Class:* -
- *Transport/Additional information:* Not dangerous according to the above specifications.

## 15. REGULATIONS

### Sara

Section 355 (extremely hazardous substances): None of the ingredients is listed.

Section 313 (Specific toxic chemical listings): None of the ingredients is listed.

TSCA (Toxic Substances Control Act): All ingredients are listed.

### Proposition 65

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity: None of the ingredients is listed.

Risk phrases: irritating to eyes and skin

Product related hazard information:

The product has been classified and in accordance with directives on hazardous materials.

National regulations:

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

## 16. OTHER INFORMATION

This information is based on our present knowledge.