

Material Safety Data Sheet

According to EC directive 2001/58/EC



FAVORGEN
BIOTECH CORP.

Plasmid DNA Extraction Kit

Processing date 01.03.2005

Version 1

Printing date 10.03.2005

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION

Commercial Product Name: Plasmid DNA Extraction Kit

Supplier: Favorgen Biotech Corp.

Address: 7F-1, No 120, Chung-Chen 1st Rd., Kaohsiung 802, Taiwan. R.O.C.

Phone Number: 886-7-311-0882

Emergency telephone number: 886-7-311-0882

2. CHEMICAL CHARACTERISATION

PD1 Buffer: 1 piece(s)

Contains no hazardous substances in concentrations to be declared

PD2 Buffer: 1 piece(s)

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

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

PD3 Buffer: 1 piece(s)

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

W1 Buffer: 1 piece(s)

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

Wash Buffer: 1 piece(s)

Contains no hazardous substances in concentrations to be declared

EB Buffer: 1 piece(s)

Contains no hazardous substances in concentrations to be declared

RNase A: 1 piece(s)

Contains no hazardous substances in concentrations to be declared

3. HAZARDS IDENTIFICATION

Classification: Harmful

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

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Note: slightly hazardous to water and ground.

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

PD1 Buffer

Form: liquid

Miscibility with water: immiscible

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pH : 7.6

PD2 Buffer

Form: liquid

Miscibility with water: immiscible

pH : 13

PD3 Buffer

Form: liquid

Miscibility with water: immiscible

pH : 4.5

W1 Buffer

Form: liquid

Miscibility with water: immiscible

pH : 7.0

Wash Buffer

Form: liquid

Miscibility with water: immiscible

pH : 7.5

Elution 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

PD2 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

PD3 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

W1 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.

11. ECOLOGICAL INFORMATION

Water hazard class: 1 slightly hazardous to water and ground

12. 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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13. TRANSPORT INFORMATION

DOT regulations:

Hazard class: 8

Identification number: UN1824

Packing group: III

Proper shipping name (technical name): SODIUM HYDROXIDE SOLUTION

Label 8

Land transport ADR/RID (cross-border):

ADR/RID class: 8 Corrosive substances

Danger code (Kemler): 80

UN-Number: 1824

Packaging group: III

Description of goods: 1824 SODIUM HYDROXIDE SOLUTION

Maritime transport IMDG:

IMDG Class: 8

UN Number: 2790

Label 8

Packaging group: III

Marine pollutant: No

Propper shipping name: SODIUM HYDROXIDE SOLUTION

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8

UN/ID Number: 2790

Label 8

Packaging group: III

Propper shipping name: SODIUM HYDROXIDE SOLUTION

14. 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.

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

Hazard symbol: Harmful

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.

15. OTHER INFORMATION

This information is based on our present knowledge.