



FAVORGEN[®]
BIOTECH CORP.

Office: Ping-Tung Agricultural Biotechnology Park No.37, Nong-Ke Rd., Ping-Tung 908, Taiwan

TEL: +886-8-762-1829 FAX: +886-8-762-0791 Website: www.favorgen.com

Material Safety Data Sheet

According to EC directive 2001/58/EC

Plant Genomic DNA Extraction Mini Kit

Version 2

Processing date 04.10.2018

Printing date 04.10.2018

1. Identification of substance:

Commercial Product Name: Plant Genomic DNA Extraction Mini Kit

Article number: FAPGK 001 001-1

Application of the substance / the preparation: Laboratory chemicals

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

Fax: 886-8-762-0791

Emergency telephone number: 886-8-762-1829

2. Composition/Data on components:

FAPG1 Buffer: 1 piece(s)

2.5-5 % Sodium dodecylsulfate; CAS-No. 151-21-3

FAPG2 Buffer: 1 piece(s)

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

FAPG3 Buffer: 1 piece(s)

25-50% M Guanidinium chloride; CAS-No.00050-01-1

W1 buffer: 1 piece(s)

25-60% M Guanidinium chloride; CAS-No.00050-01-1

Wash Buffer: 1 piece(s)

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

EB Buffer: 1 piece(s)

Water, contains no hazardous substances in concentrations to be declared

3. Hazards identification:

· **Hazard description:** not applicable

· **Information pertaining to particular dangers for man and environment:** not applicable

4. First aid measures:

· **General information:** No special measures required.



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- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Call for a doctor immediately.

5. Fire fighting measures:

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6. Accidental release measures:

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** No dangerous substances are released.

7. Handling and storage:

- **Handling**
- **Information for safe handling:**
No special measures required.
No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** According to product specification
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

8. Exposure controls and personal protection:

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment**



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· **General protective and hygienic measures:**

The usual precautionary measures should be adhered to when handling chemicals.

· **Breathing equipment:** *Not required.*

· **Protection of hands:** *Protective gloves.*

· **Material of gloves:** *Synthetic gloves*

· **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** *Goggles recommended during refilling.*

9. Physical and chemical properties:

· **General Information**

Form: *Liquid*

Colour: *Colourless*

Odour: *Odourless*

· **Change in condition**

Melting point/Melting range: *undetermined*

Boiling point/Boiling range: *100°C*

· **Flash point:** *Not applicable*

· **Self igniting:** *Product is not selfigniting.*

· **Danger of explosion:** *Product does not present an explosion hazard.*

· **Vapour pressure at 20°C:** *23 hPa*

· **Density:** *Not determined*

· **Solubility in / Miscibility with Water:** *Fully miscible*

· **pH-value at 20°C:** *7,0*

· **Organic solvents:** *0,0 %*

· **Water:** *50-100%*

· **Solids content:** *10-20 %*

10. Stability and reactivity:

· **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*

· **Dangerous reactions:** *No dangerous reactions known.*

· **Dangerous products of decomposition:** *No dangerous decomposition products known.*



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11. Toxicological information:

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

77-86-1 Tris(hydroxymethyl)aminomethane: Oral LD50 5900 mg/kg (rat)

6381-92-6 Ethylenediaminetetraacetic acid disodium salt dehydrate: Oral LD50 2000 mg/kg (rat)

151-21-3 sodium dodecyl sulphate: Oral LD50 1288 mg/kg (rat)

· **Primary irritant effect:**

· **On the skin:** No irritant effect.

· **On the eye:** No irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12. Ecological information:

· **General notes:**

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. Disposal considerations:

· **Product:**

· **Recommendation:** Hand over to hazardous waste disposers.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent::** Water, if necessary with cleansing agents.

14. Transport information

· **Land transport ADR/RID (cross-border):** None

· **ADR/RID class:** None

· **Maritime transport IMDG:** None

· **IMDG Class:** None

· **Marine pollutant:** No

· **Air transport ICAO-TI and IATA-DGR:** None

· **ICAO/IATA Class:** None

· **Transport/Additional information:** Not dangerous according to the above specifications.



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15. Regulations

· **Safety phrases:**

Observe the general safety regulations when handling chemicals

· **National regulations**

· **Water hazard class:** *Generally not hazardous for water.*

16. Other information:

This information is based on our present knowledge.