

# SAFETY DATA SHEET

Creation date: November 27, 2013

Revision date: February 07, 2020

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product** : GM Maize Detection Plasmid Set -ColE1/TE-  
**Code No.** : 313-05981

Kit components

- ① ColE1/TE
- ② Maize-ColE1/TE- 20
- ③ Maize-ColE1/TE- 125
- ④ Maize-ColE1/TE- 1.5k
- ⑤ Maize-ColE1/TE- 20k
- ⑥ Maize-ColE1/TE- 250k

**Company Name** : NIPPON GENE CO., LTD.  
**Address** : 2-7-18, Toiya-machi, Toyama 930-0834 Japan  
**Phone Number** : +81(0)76-451-6548  
**Fax Number** : +81(0)76-451-6547

## 2. HAZARDS IDENTIFICATION

**GHS Classification** : None  
**Symbol** : No Symbol  
**Signal word** : No Signal word  
**Physical hazards** : Low hazard potential when handled properly  
**Health hazards** : Low hazard potential when handled properly  
**Environmental hazards** : Low hazard potential when handled properly

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### ① ColE1/TE

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Tris-HCl (pH8.0)	10 mM	Not available	Not available	None
EDTA (pH8.0)	1 mM	Not available	Not available	None
ColE1 DNA	Non-disclosure	Not available	Not available	None

### ② Maize-ColE1/TE- 20, ③ Maize-ColE1/TE- 125, ④ Maize-ColE1/TE- 1.5k, ⑤ Maize-ColE1/TE- 20k

### ⑥ Maize-ColE1/TE- 250k

Single Product/Mixture Classification: Mixture

Common/Chemical Name	Content	Chemical Formula	CAS Number	Hazardous Ingredient
Tris-HCl (pH8.0)	10 mM	Not available	Not available	None
EDTA (pH8.0)	1 mM	Not available	Not available	None
ColE1 DNA	Non-disclosure	Not available	Not available	None
Plasmid DNA	Non-disclosure	Not available	Not available	None

## 4. FIRST AID MEASURES

### Necessary measures against various exposure types

**Inhalation** : Remove from exposure area to fresh air immediately. Get medical attention if adverse health effects persist or are severe.

**Skin Contact** : Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains. Get medical attention if adverse health effects persist or are severe.

**Eye Contact** : Wash eyes immediately with large amounts of water for at least 15 minutes. Get medical attention if adverse health effects persist or are severe.

**Ingestion** : Wash mouth out with water. Get medical attention if adverse health effects

persist or are severe.  
**Most important symptoms/effects, acute and delayed**  
 : Not available

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## 5. FIRE FIGHTING MEASURES

**Extinguishing Media** : Powder, alcohol-resistant foam, carbon dioxide, dry sand, water spray  
**Banned Extinguishing Media** : None  
**Specific Hazards** : In case of fire, toxic and corrosive vapors or fumes may be formed.  
 Wear suitable protection to avoid inhalation.  
**Special Fire Fighting Procedures**  
 : Use media suitable to extinguish source of fire.  
 Extinguish the fire from the windward side of the fire.  
 Perform the proper operation to prevent dispersion of material that influences environmental conditions.  
**Protective Measures in Fire** : The fire fighting should be done from the windward side to avoid inhalation of toxic gas, with suitable respiratory protective device, if necessary

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Personal Protection, and Emergency Equipment**  
 : Wear appropriate personal protective equipment. Use caution, as spill area may be slippery.  
**Environmental Precautions** : Prevent further leakage or spillage. Do not contaminate any lakes, streams, ponds, groundwater or soil. Prevent dispersion of materials.  
**Methods and materials for containment and cleaning up**  
 : Clean spill area completely with floorcloth or the like

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## 7. HANDLING AND STORAGE

**Handling**  
 Technical Measures : None  
 Local exhaust ventilation system/general ventilation : Ventilate according to [8. Exposure control / Personal protection].  
 Precaution : Do not leak, overflow and scatter.  
 Seal tightly after use.  
 Wash hands thoroughly after handling.  
 Handle in a specially designated area where no eating or drinking is allowed.  
 Avoid nonessential personnel from entering the handling area.  
 Handle container with enough care not to damage container.  
 Wear proper protective clothing and shoes.  
 Incompatible Contacts : Not available  
**Storage**  
 Storage Condition : Store at -20°C  
 Technical Measures : None  
 Incompatible Materials for Storage : Not available  
 Material of Container : Polyethylene, polypropylene

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Biological limit values** : ACGIH : Not established  
 : JSOH : Not established  
**Engineering Measures** : Provide local exhaust ventilation if generating vapor, dust, or mist.  
**Appropriate engineering controls**  
 : Handle in accordance with good industrial hygiene and safety practice.  
 Wash hands before breaks and at the end of workday.  
**Personal protective equipment**  
 Respiratory protection : Protective mask

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Hand protection	: Suitable impervious gloves.
Eye protection	: Suitable safety glasses (goggles)
Skin protection	: Protective clothing (long sleeved)

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance (physical state, Colour etc)

: Colorless liquid

**Odor** : Odorless

**pH** : Not available

**Melting point / freezing point** : Not available

### Initial boiling point and boiling range

: Not available

**Flash point** : Not available

### Upper/lower flammability or explosion limits

: Not available

**Vapor pressure** : Not available

**Relative density** : Not available

**Solubility** : Miscible in water

### Partition coefficient (n-octanol/water)

: Not available

**Autoignition temperature** : Not available

**Decomposition temperature** : Not available

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## 10. STABILITY AND REACTIVITY

**Reactivity** : Not available

**Chemical stability** : Not available

### Possibility of hazardous reactions

: Not available

**Conditions to avoid** : Light, heat

**Incompatibilities** : Not available

### Hazardous decomposition products

: Carbon monoxide, carbon dioxide

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## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** : Not available

**Skin Corrosion / Irritation** : Not available

**Eye Damage / Irritation** : Not available

### Respiratory or Skin Sensitization

: Not available

**Germ Cell Mutagenicity** : Not available

**Carcinogenicity** : Not available

**Toxic to Reproduction** : Not available

### Specific Target Organ Systemic Toxicity/Single Exposure

: Not available

### Specific Target Organ Systemic Toxicity/Repeated Exposure

: Not available

**Aspiration Hazard** : Not available

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## 12. ECOLOGICAL INFORMATION

**Toxicity** : Not available

**Persistence / Degradability** : Not available

**Bioaccumulative potential** : Not available

**Mobility in soil** : Not available

**Hazard to the ozone layer** : Not available

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**Other hazard information** : Not available

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### 13. DISPOSAL CONSIDERATIONS

**Hazardous Waste** : Waste must be disposed of in accordance with federal, state, and local regulations.  
Contact a licensed professional waste disposal service to dispose of this material if the above procedure is not operatable.

**Contaminated Container and Packaging** : Retaining product residue must be completely removed before dispose.

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### 14. TRANSPORT INFORMATION

**Basic classification information for the transporting/shipment**

UN Number : Not applicable

Marine Pollutant : Not applicable

**International regulations**

Land : Not Controlled under ADR/RID's regulations.

Sea : Not Controlled under IMDG's regulations.

Air : Not Controlled under IATA's regulations.

**Special safety measures**

: Handle container with enough care not to damage container

Do not drop container or give shock/impact and avoid any damage onto container

Keep container upright and properly tighten not to fall down

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### 15. REGULATORY INFORMATION

Follow all the relevant local, state, and federal laws and regulations in your country.

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### 16. OTHER INFORMATION

• **Reference**

NITE Chemical Risk Information Platform (NITE-CHRIP)

[http://www.nite.go.jp/en/chem/chrip/chrip\\_search/systemTop](http://www.nite.go.jp/en/chem/chrip/chrip_search/systemTop)

SDS supplied by the supplier, etc.

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The above information is believed to be correct to be the best of our knowledge and information but do not purport to be all inclusive and shall be used only as a guide. This product is intended to be used by expert persons having chemical knowledge and skill, at their own discretion and we shall not be held liable for any damage resulting from handling or from contact with the above material.