

## Material Safety Data Sheet (MSDS)

According to regulation (EC) No. 1907/2006

Version 1.0 Revision date: 30 Aug. 2016

### Important note:

ClearDetections has evaluated its product with the help of the latest amendments of the European Union Directives: 67/548/EC, 1999/45/EC.

### 1. Product identification/Company details

Product: Banana Plant tissue DNA extraction & purification kit

Use of product: in vitro diagnostics

Company: ClearDetections BV  
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### 2. Composition/Information on ingredients

The Protease (R 36/37/38;42/43 S 23-24-26 36/37) is harmful (Xn).

DDT (R 22-36/37/38 S 26-36) is harmful (Xn).

SDS (R41 S25-26-39) is irritating (Xi)

The other compounds, buffers and solutions are without known hazardous properties.

### 3. Hazards identification

#### **Inhalation:**

Protease: harmful (Xn),

DDT is harmful (Xn),

SDS is irritating (Xi),

Other kit components: no information available

#### **Skin contact:**

Protease: harmful (Xn),

DDT is harmful (Xn),

SDS is irritating (Xi),

Other kit components: no information available

#### **Eye contact**

Protease: harmful (Xn),

DDT is harmful (Xn),

SDS is irritating (Xi),

Other kit components: May cause irritation

#### **Ingestion**

Protease: harmful (Xn),

DDT is harmful (Xn),

SDS is irritating (Xi),

Other kit components: no information available

### 4. First Aid measures

For all incidents, a medical exam is desirable.

**Inhalation:**

Supply fresh air seek medical attention

**Ingestion:**

Induce immediate vomiting, seek medical attention

**Skin contact:**

Wash copiously with water and soap

**Eye contact:**

Flush eyes copiously with water, and seek medical attention

## 5. Fire-fighting measures

**Extinguishing media:**

Water spray, carbon dioxide, dry chemical powder, and foam

**Unsuitable extinguishing media:**

No information available

**Special hazards of product:**

No information available

**Protective equipment for fire-fighting:**

As in any fire wear self-contained breathing apparatus and protective clothing.

## 6. Accidental release measures

**Persons related safety precautions:**

Wear disposable impermeable gloves while handling the components

**Measures for protecting the environment:**

Dilute with plenty of water

**Measures for cleaning/collecting:**

Absorb with liquid-binding material and dispose according regulations

## 7. Handling and storage

**Handling:**

Avoid contact with the eyes, skin and clothing

**User exposure:**

Avoid inhalation, use personal protective equipment including lab coat and impermeable gloves.

**Conditions for safe storage:**

Store all ingredients according conditions described in the instruction manual.

## 8. Exposure controls/personal protection

**Exposure limits:**

No information available

**Personal protection measures:**

Wear personal protective equipment including lab coat, impermeable gloves and safety goggles.

Use in a ventilated laboratory. Wash hands after use.

## 9. Physical and chemical properties:

**Physical state:**

Liquid

**Solubility in water:**

Soluble

**Point/boiling interval:**

No information available

**Point/fusion interval:**

No information available

**Flash Point:**

No information available;

**Inflammability:**

No information available

**Explosion risk:**

No information available

## 10. Stability and reactivity

**Stability:**

Stable under storage conditions described in user manual

**Materials to avoid:**

No information available

**Hazardous decomposition products:**

No information available

## 11. Toxicological information

**Potential effects on health:**

Eyes

Protease: irritant

DDT: irritant

SDS: irritant

Other kit components: no information available

Skin

Protease: irritant, may cause sensitization

DDT: irritant, may cause sensitization

SDS: irritant, may cause sensitization

Other kit components: no information available

Inhalation:

Protease: may cause sensitization

DDT: may cause sensitization

SDS: may cause sensitization

Other kit components: no information available

Ingestion:

No information available

**Specific effects:**

Sub-acute to chronic toxicity: no data available

## 12. Ecological data:

**Eco-toxicity effect:**

no information available

**Mobility and bioaccumulation potential:**

No information available

## 13. Disposal considerations:

Dispose according to local/regional disposal instructions

## 14. Transport information

ADR/RID: non dangerous goods

IMDG: non dangerous goods

IATA: non dangerous goods

#### 15. Regulatory information

Protease: code letter and hazard designation are Xn, Harmful

SDS: code letter and hazard designation are Xn, Harmful

DDT: code letter and hazard designation are Xi, Irritant

Risk phrases:

R 22 Harmful if swallowed.

R 42/43 May cause sensitization by inhalation and skin contact.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 41 Risk of serious damage to eyes.

Safety phrases:

S 23 Do not breathe gas/fumes/vapour/spray

S 24 Avoid contact with skin.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S 36/37 Wear suitable protective clothing and gloves.

S 39 Wear eye/face protection

Other kit components: no information available

#### 16. Other information

The above information is believed to be correct and should only be used as a guide.

ClearDetections BV shall not be held liable for any damage resulting from handling, contact or inappropriate use of the product. Please refer to instructions for use. This information should be used in conjunction with an end-user assessment of risk.