

Material Safety Data Sheet (MSDS)

According to regulation (EC) No. 1907/2006

Version 2.0 Revision date: 16 December 2021

Important note:

ClearDetections has evaluated its product with the help of the latest amendments of the European CLP registration 1272/2008.

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.