



Material Safety Data Sheet

MagPurix Plant DNA Extraction Kit

Version 4.4

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1. IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Product Name: MagPurix Plant DNA Extraction Kit

Product Code: ZP02014

Intended Use: Laboratory use

Supplier:

Company: Zinexts Life Science Corp.

Address: 10F.-5, No.120, Qiaohe Rd., Zhonghe Dist.,

New Taipei City 235, Taiwan

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2. HAZARDS IDENTIFICATION

Hazard Class and **Eye Irrit. 2.**

Category Code(s): **Skin Irrit. 2.**

Resp Sens. 1.

Hazard Statement **H315 Causes skin irritation.**

Code(s): **H319 Causes serious eye irritation.**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components

Proteinase K: 1 piece(s)

Ingredients

< 5 % Proteinase K; EC No. 254-457-8 CAS-No. 39450-01-6

Pictograms: GHS08

Signal Word Code(s): Dgr

Hazard Statement Code(s): H315, H319, H334

40-50 % Glycerol; EC No.200-289-5 CAS-No. 56-81-5

Pictograms: GHS07

Signal Word Code(s): Wng

Hazard Statement Code(s): H315, H319

60-50 % Non-Hazardous Ingredients

Lysis Buffer 2: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

Binding Buffer 1: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

Wash Buffer 1: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

Wash Buffer 2: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

Wash Buffer 3: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

Elution Buffer 1: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

Elution Buffer 2: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

PLA buffer: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

PLB buffer: 1 piece(s)

Labelling: not required

Contains no hazardous substances in concentrations to be declared

4. FIRST AID MEASURES

Causes skin irritation.: Rinse skin with water/shower.

Causes serious eye irritation.: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Harmful if swallowed: Call a POISON CENTER or doctor/physician if you feel unwell.

Harmful if inhaled: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

5. FIRE-FIGHTING MEASURES

Extinguishing media: CO₂, extinguishing powder or water spray.

6. ACCIDENTAL RELEASE MEASURES

Actions to be taken on spillage:

Wash off small quantities with plenty of water. Absorb larger quantities of spilled substance with fluid binders and dispose of suitably. "

Absorbent material:

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

Actions to be taken to limit damage:

Prevent discharge of the product into the sewage system, cesspits and cellars. Vapours produce potentially explosive atmosphere If substance has entered a water course or sewer or contaminated soil, advise police or fire brigade.

7. HANDLING AND STORAGE

Handling: Take measures against electrostatic loading. Exhaust fumes at source.

Storage: at 15~ 25°C | 59~ 77°F.

Do not store together with: No restriction.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection: Filter A only in the case of a given exposure.

Eye protection: Safety glasses

Hand protection: Protective gloves

Hygiene measures: Wash hands before breaks and at the end of workday

9. PHYSICAL AND CHEMICAL PROPERTIES

Proteinase K

Form: liquid

Miscibility with water: completely miscible

pH: 7,5

Lysis Buffer 2

Form: liquid

Miscibility with water: completely miscible

pH: > 6,0,

< 7,0

Binding Buffer 1

Form: liquid

Miscibility with water: completely miscible

Flash point: 12 °C

Wash Buffer 1

Form: liquid

Miscibility with water: completely miscible

pH: 6,6

Wash Buffer 2

Form: liquid

Miscibility with water: completely miscible

pH: 4,0

Wash Buffer 3

Form: liquid

Miscibility with water: completely miscible

pH: 4,0

Elution Buffer 1

Form: liquid

Miscibility with water: completely miscible

pH: 5-9

Elution Buffer 2

Form: liquid

Miscibility with water: completely miscible

pH: 5-9

PLA buffer:

From: liquid

Miscibility with water: completely miscible

pH: 5-9

PLB buffer:

From: liquid

Miscibility with water: completely miscible

pH: 5-9

10. STABILITY AND REACTIVITY

Hazardous reactions: Reacts with acids to form toxic gases.

11. TOXICOLOGICAL INFORMATION

Proteinase K

Glycerol

Acute toxicity

LD50 Oral - Rat - 12600 mg/kg

LD50 Dermal - Rabbit - > 10000 mg/kg

Skin corrosion/irritation

Skin- Rabbit

Result: Mild skin irritation - 24 h

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Mild eye irritation - 24 h

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: MA8050000

Toxicological information for the product

Harmful substance / product.

12. ECOLOGICAL INFORMATION**Proteinase K**

Glycerol

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal route: Can be sent to an incineration plant in accordance with local regulations.

Disposal of empty packaging: Empty packaging can be disposed of via local recycling channels.

14. TRANSPORT INFORMATION

14.1 UN Number: Not relevant

14.2 UN proper shipping name: Not relevant

14.3 Transport hazard class (es):

ADR: Not classified

IMDG: Not classified

ICAO/IATA: Not classified

RID: Not classified

DOT: Not classified

14.4 Packaging group: Not applicable

14.5 Environmental hazards: Not relevant

14.6 Special precautions for user: Not special precautions

14.7 This product is safe under IATA DGR 58th Edition 2017.

15. REGULATORY INFORMATION

Labelling according to EC-Directives

Note: This product must be labeled in accordance with EC 1272/2008, EEC directive 67/548 and 99/45.

Hazard Class and Eye Irrit. 2.

Category Code(s): Skin Irrit. 2.

Resp Sens. 1.

Hazard Statement H315 Causes skin irritation.

Code(s): H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Safety advice: P305 IF IN EYES:

P351 Rinse cautiously with water for several minutes.

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P302 IF ON SKIN:

P352 Wash with plenty of soap and water.

P304 IF INHALED:

P341 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

16. OTHER INFORMATION

Further information

The information herein is believed to be correct as of the date hereof but is provided without warranty of any kind. The recipient of our product is responsible for ensuring that, where applicable, existing laws and guidelines are observed.