



## MATERIAL SAFETY DATA SHEET

Prepared in accordance to article 31 of EU regulation 1907/2006/EC

Generic MSDS – No Country Specific Data

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### 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifier

Product Name: GRS Genomic DNA Kit – Plant  
Product Number(s): GK04.0100, GK04s, GK04.0004  
Brand: GRiSP  
REACH No. N/A

#### 1.2 Relevant identified uses of the substance/mixture and uses advised against:

Identified uses: Laboratory chemicals, for research only.  
Uses advised against: Not intended for human or animal diagnostics, therapeutics or other clinical uses.

#### 1.3 Company/Undertaking Identification

Company: GRiSP, Lda.  
Edifício Central do UPTEC  
Rua Alfredo Allen, 455|461  
4200-135 PORTO, Portugal  
Tel: +351-220301599  
Fax: +351-220301597  
E-mail: info@grisp.pt

#### 1.4 Emergency telephone number:

Emergency telephone number: +351-808 250143 (Poison Information Centre, CIAV, Lisbon) or check local emergency contact information

### 2 Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Acute Toxicity: Category 4, H302  
Eye Irritant: Category 2A, H319  
Skin irritation: Category 2: H315  
Specific target organ toxicity – single exposure (STOT-SE): Category 3, Respiratory System, H335

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

CLP

Hazard pictograms:



**Signal word:** Warning

**Hazard Statements**  
**Hazard Statements**

H302 Harmful if swallowed  
H315 Causes skin irritation  
H319 Causes serious eye irritation  
H335 May cause respiratory irritation

**Precautionary statements:**

**Response:**

P330 IF swallowed: Rinse mouth  
P302+P352 IF ON SKIN: Wash with plenty of water  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

**Prevention:**

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves / protective clothing / eye protection / face protection  
P281 Use personal protective equipment as required

**2.3 Other hazards**

None

**3 Composition/information on ingredients**

**3.1 Description:** Kit for the purification of DNA from several types of plant cells and tissues, including leaves, containing several separated buffers/mixtures

**3.2 Chemical Characterization: Mixtures**

**Synonyms**

3.2.1

Mixture(s)	Reagent	CAS	EC-No	%	Classification (CLP)
Buffer PL1A, Buffer PL1B	EDTA	6381-92-9	205-358-3	0.5-1.5	Acute Tox.4;H302 Skin Irrit. 2; H315 Eye Irrit 2; H319 STOT SE 3; H335
Buffer PL1A	SDS	151-21-3	205-788-1	0.5-2.0	Skin Irrit. 2; H315
Buffer PL3, Wash Buffer 1	Guanidine-HCL	50-01-1	200-002-3	5.0-10	Acute Tox.4;H302 Skin Irrit. 2; H315 Eye Irrit 2; H319
Wash Buffers, Elution Buffer	Tris-HCl	1185-53-1	214-684-5	0.1-1.0	Acute Tox.4;H302 Skin Irrit. 2; H315 Eye Irrit 2; H319
Buffer PL1B	CTAB	57-09-0	200-311-3	1.0-5.0	Skin Irrit. 2; H315

Buffer PL2	Acetic Acid	64-19-7	200-580-7	5.0-10	Skin Irrit. 2; H315 Eye Irrit 2; H319
Buffer PL1B	Triton® X-100	9002-31-1	unlisted	0.5-1.0	Acute Tox.4;H302 Skin Irrit. 2; H315 Eye Irrit 2; H319

3.2.2 All other components not listed here are either not dangerous or their concentrations do not exceed the limits specified in Regulation (EC) No 1272/2008

#### 4 First aid measures

##### 4.1 **Description of First aid measures:**

General information: Consult a physician. Show this safety data sheet to the doctor in attendance

Inhalation: If inhaled, move exposed person to fresh air. If not breathing, begin artificial respiration immediately and obtain medical attention.

Eye contact: In case of contact with eyes, rinse with plenty of water for at least 15 minutes. Remove contact lenses. If pain or irritation occurs obtain medical attention.

Skin contact: In case of contact with skin, flush with copious amounts of water for at least 15 minutes. If pain or irritation occurs obtain medical attention.

Ingestion: If swallowed, wash mouth with water. If irritation or discomfort occurs, obtain medical attention

##### 4.2 **Most important symptoms and effects, both acute and delayed**

See section 11 (Toxicological information) for details. Causes serious eye irritation.

##### 4.3 **Indication of any immediate medical attention and special treatment needed**

No specific medical attention or treatment required

#### 5 Fire-fighting measures

##### 5.1 **Extinguishing Media :**

CO<sub>2</sub>, powder or water spray or alcohol resistant foam.

##### 5.2 **Special hazards arising from the substance or mixture**

###### **Special Fire and Explosion Hazards**

None

#### 6 Accidental release measures

##### 6.1 **Personal precautions, protective equipment and emergency procedures:**

Avoid contact with skin, eyes and clothing. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

##### 6.2 **Environmental Precautions:**

Avoid spill to prevent migration. Do not allow product to enter drains. Dispose of contents/container in accordance to national and local regulations.

##### 6.3 **Methods and material for containment and cleaning up:**

Place in container suitable for disposal.

## 7 Handling and storage

- 7.1. Handling:** Avoid skin and eye contact. Avoid formation of dust and aerosols
- 7.2 Storage:** According to product specifications .
- 7.3. Specific end uses:**  
No further relevant information available

## 8 Exposure controls/personal protection

### 8.1 Control Parameters

### 8.2 Exposure Controls

This product is for research only and has not been intended/approved for any other commercial, drug, medicinal, household or other consumer purposes. Avoid all unnecessary exposure. Wear tightly fitting safety goggles, suitable protective clothing, and gloves. Do not wear contact lenses. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety practice.



Protective gloves



Tightly sealed goggles



Protective work clothing

**Appropriate Engineering Controls.** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

## 9 Physical and chemical properties

- 9.1. Physical State: Liquid
- 9.2. Appearance: Colourless
- 9.3. Odor: Odorless
- 9.4. pH (20°C): 4.5-8.5
- 9.5. Flash Point: Undetermined
- 9.6. Melting point: Undetermined
- 9.7. Boiling point: Undetermined
- 9.8. Self-ignition: Product is not self igniting
- 9.9. Danger of explosion. Does not present an explosion hazard
- 9.10 Solubility in water: Miscible

**10 Stability and reactivity**

<b>10.1</b> Reactivity	No dangerous reactions known.
<b>10.2</b> Chemical Stability	Stable
<b>10.3</b> Conditions to avoid	Not established.
<b>10.4</b> Materials to avoid	No information available
<b>10.5</b> Conditions to avoid	No information available
<b>10.6</b> Hazardous decomposition products	Not expected to occur.
<b>10.7</b> Hazardous products of thermal decomposition:	No information available

**11 Toxicological information**

**11.1 Information on toxicological effects**

Acute Toxicity:	Harmful if swallowed
Irritation:	Causes skin irritation. Causes serious eye irritation.
Corrosivity:	No data available
Sensitisation:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity:	No component of this product present is identified as probable possible or confirmed human carcinogen by IARC
Reproductive toxicity:	No data available
Specific target organ toxicity (single exposure):	May cause respiratory irritation
Specific target organ toxicity (repeated exposure):	No data available
Aspiration hazard:	No data available

**12 Ecological Information**

Toxicity

12.1 Aquatic toxicity	No further relevant information available
12.2 Persistence and degradability:	No further relevant information available
12.3 Bioaccumulative potential	No further relevant information available
12.4 Mobility in Soil:	No further relevant information available
12.5 Other adverse effects:	No further relevant information available

Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB

### 13 Disposal Considerations

Dispose in accordance to all National and local environmental regulations.

### 14 Transport Information

IATA/ADR/DOT-US/IMDG

Not regulated in the meaning of transport regulations

#### 14.1 UN number

No dangerous good in sense of transport regulation

#### 14.2 UN proper shipping name

Not dangerous goods

#### 14.3 Additional information

No supplementary information available

##### **Land transport ADR/RID (cross-border)**

Not dangerous goods

##### **Maritime transport IMDG**

Not dangerous goods

##### **Air transport ICAO-TI and IATA-DGR**

Not dangerous goods

### 15 Regulatory Information

#### 15.1 **US Federal Regulations**

EDTA, disodium dehydrate (CAS: 6831-92-6) listed on the US TSCA (United States Toxic Substances Control Act) Inventory

#### 15.2 **International Regulations**

##### **EU Regulations**

No additional information available

##### **Classification according to Regulation (EC) No 1272/2008 [CLP]**

No additional information available

#### 15.3 **National Regulations**

No additional information available

#### 15.4 **US State Regulations**

No additional information available

#### 15.5 **Other Regulations**

No additional information available

16 Other information

The information mentioned above is based on our present knowledge and is believed to be correct. However, it shall only be used as a guide and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. GRISP, Lda. shall not be held liable for any damage resulting from the handling or from contact with the above product. This MSDS has been prepared in accordance with EU Regulation 1907/2006/EC and other EU legislation in force.