



MATERIAL SAFETY DATA SHEET

Prepared in accordance to article 31 of EU regulation 1907/2006/EC
Generic MSDS – No Country Specific Data

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

1.1 **Product Identifier**

Product Name: GRS circulating cell-free DNA/RNA Purification Kit
Product Number(s): GK20.0050,GK20.0100, GK20s
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.
Edificio 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 circulating DNA and RNA from serum or plasma, containing several separated buffers/mixtures

3.2 Chemical Characterization: Mixtures**Synonyms**

3.2.1

Mixture(s)	Reagent	CAS	EC-No	%	Classification (CLP)
Red Cell Lysis Buffer, Buffer CCF-1	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 R1	Guanidine Thiocyanate	593-84-0	209-812-1	5.0-10	Acute Tox.4;H302 Skin Irrit. 2; H315 Eye Irrit 2; H319 STOT SE 3; H335
Wash Buffer 1, Buffer CCF-2	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	Tris-HCl	1185-53-1	214-684-5	0.1-1.0	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 :

CO₂, 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

10.1 Reactivity	No dangerous reactions known.
10.2 Chemical Stability	Stable
10.3 Conditions to avoid	Not established.
10.4 Materials to avoid	No information available

- 10.5** Conditions to avoid No information available
- 10.6** Hazardous decomposition products Not expected to occur.
- 10.7** 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.