

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

- 1.1 **Product information Commercial Product Name:** Solution P4 (EliGene[®] Plant DNA Isolation Kit, 414050P, 414050)
- 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/Mixture: Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

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Telephone:	+420 542 213 851
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1.4 **Emergency telephone number**

Centre for detoxification Prague: +420 224 91 92 93/ +420 224 91 54 02

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The substance or mixture is classified as dangerous according to Regulation (EC) No 1272/2008.

Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332

2.2 Label elements

Hazard pictograms:



Signal Word: Hazard Statements:	Warning H302 + H332 H315 H319	Harmful if swallowed or if inhaled. Causes serious skin irritation. Causes serious eye irritation.
Precautionary statem P261 P280	Avoid breathing dust/ fun	ne/ gas/ mist/ vapours/ spray.

1201	word breathing dast, raine, gas, mist, vapours, spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312 + P330	If swallowed: Call a poison center or doctor/ physician if you
	feel unwell. Rinse mouth.
P304 + P340 +P312	If inhaled: Remove person to fresh air and keep comfortable for
	breathing. Call a poison center or doctor/ physician if you feel unwell.

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P305 +P351 +P338	If in eyes: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
P337 +P313	If eye irritation persists: Get medical advice/ attention.

2.3 Other hazards

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous components

Chemical Name	CAS- No. EC-No. Registration Number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
guanidine chloride	50-01-1	Acute Tox. 4; H302	>= 50 -< 70
	200-002-3	Skin Irrit. 2; H315	
		Eye Irrit. 2; H319	
		Acute Tox. 4; H332	

For explanation of abbreviations see section 16

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice:	Show this data sheet to the doctor in attendance.
If inhaled:	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact:	Wash off immediately with soap and plenty of water. Consult a physician.
In case of eye contact:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed:	If accidentally swallowed obtain immediate medical attention. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.
4.2 Most important symptoms a	nd effects, both acute and delayed
Symptoms:	The most important known symptoms and effects are described in the

labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: FIRE-FIGHTING MEASURES



5.1 Extinguishing media Suitable extinguishing media:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
5.2 Special hazards arising from the substa	ance or mixture	
Specific hazards::	Carbon oxides, Hydrogen chloride gas	
5.3 Advice for firefighters		
Special protective equipment for fire	ighters: Wear self-contained breathing apparatus for firefighting if necessary.	
Further information:	In case of fire / explosion, avoid inhalation of vapors.	
SECTION 6: ACCIDENTAL RELEASE MEASU	RES	
6.1 Personal precautions, protective equipment and emergency procedures Personal precautions: Use personal protective equipment. Ensure adequate ventilation. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.		
6.2 Environmental precautions Prevent product from entering drains Prevent further leakage or spillage if		
6.3 Methods and material for containmen	t and cleaning up	
Methods for cleaning up:	Keep in suitable, closed containers for disposal.	
6.4 Reference to other sections For personal protection see section 8.		
SECTION 7: HANDLING AND STORAGE		
7.1 Precautions for safe handling Advice on safe handling:	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.	
Instructions for protection against fire and explosion:	Common methods for fire prevention.	

Hygiene measures:Keep away from food and drink. Wash your hands before breaks
and at the end of the working day. Ensure adequate ventilation,
especially in confined spaces. Avoid contact with skin and eyes.
When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storageStore in cool place. Keep container tightly closed in a dry and well- areas and
ventilated place.

Advice on common storage: no data available



Other data:	No decomposition if stored and applied as directed.
7.3 Specific end use(s) Specific use(s):	Laboratory chemicals
SECTION 8: EXPOSURE CONTROLS / PERSO	ONAL PROTECTION
8.1 Control parametersContains no substances with occupat8.2 Exposure controls	ional exposure limit values.
Personal protective equipment	
Eye protection:	Safety glasses
Hand protection:	The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Skin and body protection:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Footwear protecting against chemicals.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	No data available
Odour:	No data available
Odour Threshold:	No data available
pH:	6.4 (18 – 22 °C)
Melting point/range:	No data available
Boiling point/boiling range:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Burning rate:	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density:	No data available
Relative density:	No data available
Density:	No data available

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Solubility(ies)	
Water solubility:	soluble
Solubility in other solvents:	No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid:

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid: Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Toxicological information for the product

Product:	
Acute oral toxicity:	No data available
Acute inhalation toxicity:	No data available
Acute dermal toxicity:	No data available

<u>Components</u>: guanidine chloride Acute oral toxicity:

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Acute toxicity estimate: 500 mg/kg Method: Converted acute toxicity point estimate



LD50 Oral (Rat): 1.120 mg/kg

Skin corrosion/irritation Causes skin irritation

Serious eye damage/eye irritation Irritating eyes.

Respiratory or skin sensitisation Buehler Test – Guinea pig Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity No data available

Carcinogenicity No data available

Reproductive toxicity No data available

STOT - single exposure No data available

Aspiration toxicity No data available

Further information RTECS: MF4300000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver-Irregularities-Based on Human Evidence

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish:	LC50-Leuciscus idus (Golden orfe)-1.759 mg/l
Toxicity to algae:	No data available
Toxicity to bacteria:	No data available

12.2 Persistence and degradability

Not readily biodegradable.

12.3 Bioaccumulative potential

Product: Bioaccumulation:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment



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.

12.6 Other adverse effects

Additional ecological information :

May be harmful to aquatic organisms. Avoid release to the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues:

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

Contaminated packaging:

Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

For personal protection see section 8.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and I mport of dangerous chemicals: Not applicable

REACH -Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable



Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16. OTHER INFORMATION

Full text of H-Statements

H302:	Harmful if swallowed
H302 + H332:	Highly flammable liquid and vapour.
H315:	Causes skin irritation.
H319:	Causes serious eye irritation.
H332:	Harmful if sinhaled.
Full text of other abbreviations	
Accute Tox.:	Accute toxicity
Eye Irrit.:	Eye irritation
Skin Irrit.:	Skin irritation
STOT SE:	Specific target organ toxicity -single exposure

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.