

**Solution S1 (EliGene® Soil DNA Isolation Kit, 412050)****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****1.1 Product information**

Commercial Product Name: Solution S1 (EliGene® Soil DNA Isolation Kit, 412050)

**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**

Company: ELISABETH PHARMACON, spol. s r.o.  
Rokycanova 4437/5, 615 00 Brno,  
Czech Republic

Telephone: +420 542 213 851

Fax: +420 542 213 827

E-mail: info@elisabeth.cz

**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.

Flam. Sol. 1; H228

Acute Tox. 4; H302

Acute Tox. 4; H312

Skin Irrit. 2; H315

Eye Irrit. 2; H319

STOT SE 3; H335

**2.2 Label elements**

Hazard pictograms:



Signal Word:

Danger

Hazard Statements:

H228: Flammable solid.

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

**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.

**Solution S1 (EliGene® Soil DNA Isolation Kit, 412050)****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Hazardous ingredients**

Chemical Name	CAS- No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
sodium dodecyl sulphate	151-21-3 205-788-1	Flam. Sol. 1; H228 Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	>= 3 -< 5

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:	Move to fresh air. If symptoms persist, call a physician.
In case of skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
In case of eye contact:	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.

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

Symptoms:	No information available.
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**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment:	No information available.
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**SECTION 5: FIRE-FIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting:	Exposure to decomposition products may be a hazard to health.
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Hazardous combustion products: No hazardous combustion products are known.

**5.3 Advice for firefighters**

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: In the event of fire and/or explosion do not breathe fumes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions: Use personal protective equipment.  
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

**6.2 Environmental precautions**

Do not allow the product to enter drains.  
Prevent further leakage or spillage if safe to do so.

**6.3 Methods and material for containment 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.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

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

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage: Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage: Do not store near acids.

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 / PERSONAL PROTECTION**

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Contains no substances with occupational exposure limit values.

**8.2 Exposure controls***Personal protective equipment*

Eye protection: Safety glasses

Hand protection Remarks: 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:	clear
Odour:	odourless
Odour Threshold:	No data available
pH:	10.75 – 11.25 (18 – 22 °C)
Melting point/range:	ca. 0 °C
Boiling point/boiling range:	ca. 100 °C
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:	ca. 1 g/cm <sup>3</sup>
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

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Thermal decomposition:	No data available
Viscosity, dynamic:	No data available
Viscosity, kinematic:	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: Stable under recommended storage conditions.  
Hazardous decomposition products formed under fire conditions.  
Keep away from oxidizing agents, and acidic or alkaline products.

**10.4 Conditions to avoid**

Conditions to avoid: No data available

**10.5 Incompatible materials**

Materials to avoid: No data available

**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**

Not classified based on available information.

Product:

Acute oral toxicity: Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity: No data available

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Components:

sodium dodecyl sulphate

Acute oral toxicity: LD50 Oral Rat: 1,228 mg/kg

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Acute inhalation toxicity: LC50 Rat: 3.9 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist

Acute dermal toxicity: LD50 Dermal Rabbit: 580 mg/kg

#### *Skin corrosion/irritation*

Not classified based on available information.

#### *Remarks*

May cause skin irritation and/or dermatitis.

#### Components:

sodium dodecyl sulphate:

Species: Rabbit

Exposure time: 24 h

Result: Irritating to skin.

#### *Serious eye damage/eye irritation*

Not classified based on available information.

#### Product:

#### *Remarks*

The product causes irritation of eyes, skin and mucous membranes.

#### Components:

sodium dodecyl sulfate:

Species: Rabbit

Result: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

#### *Respiratory or skin sensitisation*

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

#### *Germ cell mutagenicity*

Not classified based on available information.

#### *Carcinogenicity*

Not classified based on available information.

#### *Reproductive toxicity*

Not classified based on available information.

#### *STOT - single exposure*

Not classified based on available information.

#### Components:

sodium dodecyl sulphate:

Routes of exposure: Inhalation

Assessment: May cause respiratory irritation.

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*STOT - single exposure*

Not classified based on available information.

*Aspiration toxicity*

No data available

*Further information*

No data available

**SECTION 12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

Components:Toxicity to fish: NOEC (Oncorhynchus mykiss (rainbow trout)): 19.5 mg/l  
Exposure time: 96 hLC50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l  
Exposure time: 96 hToxicity to algae: (Pseudokirchneriella subcapitata (green algae)): 2.68 mg/l  
Exposure time: 150 h  
Test Type: Growth inhibition**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

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 Remarks: No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Waste from residues: Send to a licensed waste management company.

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Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging:

Dispose of as unused product.  
Do not re-use empty containers.

**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.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**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 import 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**

No data available



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**SECTION 16. OTHER INFORMATION****Full text of H-Statements**

H228:	Flammable solid.
H302:	Harmful if swallowed.
H312:	Harmful in contact with skin.
H315:	Causes skin irritation.
H319:	Causes serious eye irritation.
H335:	May cause respiratory irritation.

**Full text of other abbreviations**

Acute Tox.:	Acute toxicity
Eye Irrit.:	Eye irritation
Flam. Sol.:	Flammable solids
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.