

Solution MI5 (EliGene® MTB Isolation Kit, 90043-50 EliGene® Urine DNA Isolation Kit, 90051-50)

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

- Product information
 Solution MI5 (EliGene® MTB Isolation Kit, 90043-50

 Commercial Product Name:
 Solution MI5 (EliGene® Urine DNA Isolation Kit, 90051-50)
- **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,
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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

Classification (REGULATION (EC) No 1272/2008)				
Flammable liquid:	Category 2	H225 Highly flammable liquid and vapor.		
Skin irritation:	Category 2	H315 Causes serious skin irritation.		
Eye irritation:	Category 2	H319 Causes serious eye irritation.		

Classification (67/548/EEC	, 1999/45/EC)
Highly flammable	R11: Highly flammable
Harmful	R22: Harmful if swallowed.
Irritant	R36/38: Irritating to eyes and skin.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:



Signal Word: Hazard Statements: Danger H225 Highly flammable liquid and vapor. H315 Causes serious skin irritation. H319 Causes serious eye irritation.

Precautionary statements (P statements)



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- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

Chemical Name	CAS- No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 50 -< 70
guanidine chloride	50-01-1 200-002-3	Xn; R22 Xi; R36/38	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332	>= 30 -< 50

For explanation of abbreviations see section 16

SECTION 4: FIRST AID MEASURES

Hazardous components

4.1 Description of first aid measures General advice: Move out of dangerous area Show this data sheet to the doctor in attendance. If inhaled: If unconscious place in recovery position and seek medical advice. 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. Immediately flush eye(s) with plenty of water. 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



Risks:		skin irrita serious e	ition. ye irritation.
4.3 Indication of any immediate Treatment:			and special treatment needed available.
SECTION 5: FIRE-FIGHTING MEAS	SURES		
5.1 Extinguishing media Suitable extinguishing media	a:	Use wat dioxide.	er spray, alcohol-resistant foam, dry chemical or carbon
5.2 Special hazards arising from the substance or mixture Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water			
	0 0	courses	
Hazardous combustion proc	ducts:	No haza	rdous combustion products are known
5.3 Advice for firefighters			
Special protective equipment	nt for fire	fighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information:			In the event of fire and/or explosion do not breathe fumes. Use a water spray to cool fully closed containers.
SECTION 6: ACCIDENTAL RELEASE MEASURES			

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Use personal protective equipment.
	Ensure adequate ventilation.
	Remove all sources of ignition.
	Evacuate personnel to safe areas.
	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
	Beware of vapors accumulating to form explosive
	concentrations. Vapors can accumulate in low areas

6.2 Environmental precautions

Prevent product from entering 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:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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 formation of aerosol.
	Do not breathe vapors/dust.
	Avoid contact with skin and eyes.
	For personal protection see section 8.
	Smoking, eating and drinking should be prohibited in the
	application area.
	Provide sufficient air exchange and/or exhaust in work rooms.
	Open drum carefully as content may be under pressure.
	Dispose of rinse water in accordance with local and national regulations.
Advice on protection against	Take necessary action to avoid static electricity discharge (which
fire and explosion:	might cause ignition of organic vapours). Use only explosion-proof
	equipment. Keep away from open flames, hot surfaces and sources of ignition
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
areas and containers:	place.
Advice on common storage:	Do not store together with oxidizing and self -igniting products
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

8.1 Control parameters

Chemical Name	CAS-No.	Value	Control parameters	Basis
ethanol	64-17-5	TWA	1,000 ppm	GB EH40
			1,920 mg/m3	

8.2 Exposure controls

-		
	Personal protective equipment	
	Eye protection:	Safety glasses Wear face - shield and protective suit for abnormal processing problems. Ensure that eyewash stations and safety showers are close to the workstation location.
	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). Protective gloves complying with EN 374.
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. Workers should wear antistatic footwear.
Respiratory protection:	In the case of vapour formation use a respirator with an approved filter.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	liquid
Colour:	No data available
Odour:	alcohol-like
Odour Threshold:	No data available
pH:	4 – 4.73 (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
Solubility(ies)	
Water solubility:	No data available
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 appli	ed as directed.	
10.2 Chemical stability		
No decomposition if stored and appli	ed as directed.	
10.3 Possibility of hazardous reactions		
Hazardous reactions:	Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Vapors may form explosive mixture with air. Keep away from oxidizing agents, and acidic or alkaline products none under normal use	
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:	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		
Product:		
Acute oral toxicity:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method	

	Method. Calculation method
Acute inhalation toxicity:	Acute toxicity estimate: > 20 mg/l Exposure time: 4 hours Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity:	No data available
Ingredients: ethanol Acute oral toxicity:	LD50/rat = 10,470 mg/kg



	Acute inhalation toxicity:	LC50/rat = 20000 ppm
	Acute initiation toxicity.	Exposure time: 10 hours
	guanidine chloride	
	Acute oral toxicity:	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	
	Product:	
	Remarks:	
	May irritate skin.	
	Serious eye damage/eye irritation	
	Causes serious eye irritation	
	Product	
	May cause irreversibke eye damage.	
	Ingredients Ethanol: eye irritation	
	Respiratory or skin sensitisation	
	Skin sensitisation: No data available	
	Respiratory sensitisation: No data ava	ailable
	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	
	Solvents may degrease the skin.	
SEC	TION 12. ECOLOGICAL INFORMATION	
12.1	L Toxicity	
	Toxicity to fish:	No data available
	Toxicity to algae:	No data available
	- · · · · · · · ·	

No data available No data available

Toxicity to bacteria:



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12.2 Persistence ar No data availa	v ,		
12.3 Bioaccumulati	ive potential		
Product:			
Bioaccumulati	ion:	No data available	
Ingredients:			
Guanidine chl	oride		
Partition coef	ficient: n		
-octanol/wate	er:	log Pow: ca1.7(20 °C)	
12.4 Mobility in so	il		
No data availa	able		
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:

Harmful for water organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	
Waste from residues:	Send to a licensed waste management company.
	Dispose of as hazardous waste in compliance with local
	and national regulations.
Contaminated packaging:	Dispose of as unused product

Contaminated packaging:

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

SECTION 14. TRANSPORT INFORMATION

14.1 UN number

ADR:	UN 1170
RID:	UN 1170
IMDG:	UN 1170
IATA:	UN 1170

14.2 UN proper shipping name

•••
Ethanol solution
Ethanol solution
Ethanol solution
Ethanol solution

14.3 Transport hazard class(es)

3

ADR:



	RID:	3	
	IMDG:	3	
	IATA:	3	
14.4	Packing gro	up	
	ADR		
	Packing gro	up:	II
	Classificatio	on Code:	F1
	Hazard Ider	ntification Number:	33
	Labels:		3
	Tunnel rest	riction code:	(D/E)
	RID		
	Packing gro	up:	II
	Classificatio	on Code:	F1
	Labels:		3
	IMDG		
	Packing gro	up:	II
	Labels:		3
	EmS Code:		F-E, S-D
	ΙΑΤΑ		
	Packing gro	up:	II
	Labels:		Flammable Liquids

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:

		Quantity 1	Quantity 2
7b	highly flammable	5,000 t	50,000 t

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of



major-accident haza	rds involving dangerous subs	tances:	
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including je fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams)	2,500 t t	25,000 t

15.2 Chemical Safety Assessment

No data available

SECTION 16. OTHER INFORMATION

Full text of H-Statements

- H225: Highly flammable liquid and vapour.
- H302: Harmful if swallowed
- 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

- Flam. Liq.: Flammable liquids
- Skin Irrit.: Skin irritation

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.