

SAFETY DATA SHEET

1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance/mixture:

Name: Tris-Borate Stock Solution (TBE)
Product code: LMB-09
Abbreviation: TBE
Use: Solution for the preparation of agarose gels and electrophoretic apparatus.

Company/undertaking identification:

Name: EnviroLab s.r.o.
Address: Galvaniho 7, 821 04 Bratislava
Phone: +421-2-69 307 112 Fax: +421-2-64 774 131
Place of business: Obchodná ulica 7, 946 51 Nesvady
Phone: +421-35-790 29 11

Emergency line:

Organization: National Toxicological Information Center, Limbová 5, 833 05 Bratislava
Phone: +421-2-54 774 166

2 – HAZARD IDENTIFICATION

Classification of the substance or mixture

Acute toxicity, Oral (Category 4), H302
Skin irritation (Category 2), H315
Serious eye damage (Category 2), H319
Specific target organ toxicity – single exposure (Category 3), H335
For the full text of the H-data specified in this Section, see Section 16.

Label elements:

Pictogram



Signal word: Warning

Hazard statement:

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

Precautionary statement(s)

P261	Avoid inhaling aerosols.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using the product.
P271	Use only in open air or in a well-ventilated area.
P280	Wear protective gloves/clothing/eye protection/face protection.

P301+P312	FOLLOWING INGESTION: In case of health problems, call the National Toxicological Information Center or a doctor.
P302+P352	FOLLOWING SKIN CONTACT: Wash with plenty of soap and water.
P304+P340	FOLLOWING INHALATION: Move the victim to fresh air and keep in a relaxed, motionless position that allows comfortable breathing.
P305+P351+P338	FOLLOWING EYE CONTACT: Gently rinse eyes with water for a few minutes. Remove contact lenses, if possible. Continue rinsing.
P312	In case of health problems, call the National Toxicological Information Center or a doctor.
P330	Rinse your mouth.
P332+P313	If skin irritation occurs: Seek medical help/care immediately.
P337+P313	If eye irritation persists: Seek medical help/care immediately.
P362	Take off contaminated clothing and wash before using it.
P403+P233	Keep in a well-ventilated place. Keep the container tightly closed.
P501	Dispose of contents/container in accordance with applicable regulations.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components:

This product does not contain any substances classified as dangerous according to European Union legislation.

Other hazard-presenting components:

INDEX	CAS	EC	Name	Classification	%
	6381-92-6	205-358-3	EDTA, disodium salt	H332 H373	< 1
	10043-35-3	233-139-2	Boric acid	H360FD	5.5

For the full text of the H-statements specified in this section, see Section 16.

4 – FIRST AID MEASURES

General instructions:

Symptoms of poisoning may become apparent even after many hours, so medical supervision is required for at least 48 hours after an accident.

Following eye contact:

Rinse the eyes with eyelids open under running water for a few minutes. In case of persistent difficulties, consult a doctor.

Following skin contact:

Immediately wash with water and soap and rinse thoroughly. In case of persistent skin irritation, seek medical help.

Following ingestion:

Get medical help immediately.

5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media:

To extinguish use a snow, water or powder fire extinguisher, depending on the materials stored in the immediate vicinity.

Special hazards:

Flammable material. Dangerous fumes or vapors may develop during combustion.

Special protective equipment for fire-fighters:

In case of fire, use self-contained breathing apparatus.

Additional information:

Avoid contamination of the surface or groundwater system with water used for fire extinguishing.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear suitable protective clothing. Avoid contact with the substance. Provide adequate ventilation.

Environmental precautions:

Prevent the penetration into the drainage system.

Cleaning methods:

Remove with absorbent material. Send for disposal. Clean the affected area with water and detergent.

7 – HANDLING AND STORAGE

Handling:

Avoid contact with skin, eyes and clothing. No extraordinary measures are required when adhering to the prescribed handling.

Storage:

Store at 2 – 8 °C.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

The product does not contain any substances with occupational exposure limit values.

Hand protection:

Use disposable vinyl gloves.

Eye protection:

Use tightly fitting safety goggles.

For more detailed information, see Section 11 – Toxicological Information

9 – PHYSICAL AND CHEMICAL PROPERTIES

Basic information:

Physical state:	liquid
Color:	colorless solution
Odor:	slight
pH value:	3.8 - 4.8

10 – STABILITY AND REACTIVITY

Conditions to be avoided:

Avoid exposure to direct sunlight. Stable under recommended use and storage conditions (see Chapter 7).

Substances to be avoided:

Strong oxidants, acetic anhydride.

Hazardous decomposition products:

Carbon monoxide, carbon dioxide, nitrogen oxides.

11 – TOXICOLOGICAL INFORMATION

Acute toxicity:

Quantitative data on the toxicity of this product are not available.

Additional toxicological data:

Reproductive toxicity: May damage fertility. May damage the unborn child (external safety data sheet).

Mutagenicity: Test on mammalian cells negative (external safety data sheet).

Additional information:

Other dangerous properties cannot be ruled out but are unlikely, if the product is handled appropriately. Observe the principles of hygiene and occupational safety.

12 – ECOLOGICAL INFORMATION

Ecotoxic effects:

Quantitative data on the ecological effects of this product are not available.

Other ecological data:

Prevent penetration into water, sewage and soil.

13 – DISPOSAL MEASURES

Product:

The product is hazardous waste and must be disposed of in accordance with valid legislation.

Packaging:

The product packaging must be disposed of in accordance with applicable legislation.

14 – TRANSPORT INFORMATION

The product is not classified as dangerous in terms of transport regulations. Transport in cool conditions at 4 – 6 °C.

15 – REGULATORY INFORMATION

16 – OTHER INFORMATION

Full text of H-data used in the Safety Data Sheet:

H302	Harmful if swallowed.
H315	Irritating to skin.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H332	Harmful if inhaled.
H373	May cause respiratory damage.
H360FD	May harm fertility. May damage the unborn child.

The information provided in this Safety Data Sheet is based on the current state of our knowledge. It characterizes the product with respect to the adequate safety precautions. It does not represent any guarantee of the product's properties.