

SAFETY DATA SHEET

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

Identification of the substance/mixture:

Name: 1% Malachite Green Solution
Product code: LSB-09
Abbreviation: MZ
Use: Staining solution intended for staining of microbiological preparations.

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

Reproductive toxicity (Category 2), H361

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

Label elements:

Pictogram



Signal word: Warning

Hazard statement:

H361 Suspected of harming the unborn child.

Precautionary statement(s)

P201 Read specific regulations before use.
P202 Do not use before you read and understand all safety precautions
P281 Use the prescribed personal protective equipment
P308+P313 After exposure or suspected exposure: Seek medical help/care immediately
P405 Keep locked up.
P501 Dispose of contents/container in accordance with local regulations.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components:

INDEX	CAS	EC	Name	Classification	%
603-057-00-5	100-51-6	202-859-9	Benzyl alcohol	H302 H332 H319	9.9

602-096-00-5	2437-29-8	219-441-7	Malachite green	H301 H318 H361 H400 H410	0.99
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For the full text of the H-statements specified in this section, see Section 16.

4 – FIRST AID MEASURES

Following inhalation:

Move the victim to fresh air. Following respiratory arrest: use artificial ventilation immediately; use oxygen mask, if necessary. Call the doctor immediately. Keep airways free.

Following eye contact:

Rinse the eyes with eyelids open under running water for a few minutes. Seek an ophthalmologist.

Following skin contact:

Wash affected areas with plenty of water and remove contaminated clothing. Consult a physician.

Following ingestion:

Let the victim drink water (no more than two glasses). If possible, avoid vomiting. Subsequently, give: activated carbon (20 – 40 g in 10% slurry). Consult a physician.

Notes to physicians:

Handling

Laxative: Sodium sulphate (1 tablespoon per % liter of water).

5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media:

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

Special hazards:

In the event of fire, hazardous vapors or fumes may develop.

In the event of fire, the following develops: oxides of nitrogen.

Benzyl alcohol vapors: flammable. Forms explosive mixtures with air at elevated temperatures.

Special protective equipment for firefighters and firefighting unit equipment:

Do not stay in a hazardous area without an insulating respirator. To avoid contact with the skin, observe a safe distance and wear suitable protective clothing.

Additional information:

Capture the resulting gases / vapors / fumes with water. Avoid contamination of the surface or groundwater system with water used for fire extinguishing.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:

Do not inhale fumes / aerosols. 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.

7 – HANDLING AND STORAGE

Handling:

Work with the suction chamber. No extraordinary measures are required when adhering to the prescribed handling.

Storage:

Store in a tightly closed container. Store at 5 – 25 °C. Protect from light.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Does not contain any substances with occupational exposure limit values.

Personal protective equipment:

For a specific workplace, it is necessary to choose specific work clothes, depending on the concentration and amount of dangerous substances being handled. The resistance of chemical protective clothing must be checked with the supplier concerned.

Hand protection:

Use disposable vinyl gloves.

Eye protection:

Use safety glasses.

Respiratory protection:

Required if vapors / aerosols are formed.

General hygiene:

Immediately replace contaminated clothing. Use a lotion as a protective barrier. After work, wash your hands and face. Work with the suction chamber. Do not inhale the substance.

For more detailed information, see Section 11 – Toxicological Information

9 – PHYSICAL AND CHEMICAL PROPERTIES

Basic information:

Physical state:	liquid
Color:	green
Odor:	characteristic

10 – STABILITY AND REACTIVITY

Conditions to be avoided:

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

Substances to be avoided:

Oxidizing agents, concentrated sulfuric acid, polymerization initiators, hydrogen bromide, iron.

Hazardous decomposition products:

In case of fire: see Section 5.

Additional information:

Sensitivity to light, sensitivity to air.

Unsuitable working substances: various plastics.

Forms explosive mixtures with air after intense warming.

11 – TOXICOLOGICAL INFORMATION

Acute toxicity:

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

Additional toxicological data:

Property to be expected based on the components of the product:

Following inhalation: irritation of mucous membranes, cough, shortness of breath, absorption. Inhalation may lead to the formation of airway edema.

Following skin contact: slight irritation, danger of skin absorption.

Following absorption: Nausea, headache, tremor, drunkenness, CNS disorders, apnea, seizures, drowsiness, loss of consciousness.

Following eye contact: slight irritation of the tear gland with vapors.

Following ingestion: irritation of mucous membranes in the oral cavity, throat, esophagus and digestive tract. Vomiting, diarrhea.

Additional information:

Other dangerous properties cannot be excluded. The product should be handled with caution usual for chemicals handling.

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

Not assessed as dangerous under transport regulations.

15 – REGULATORY INFORMATION

16 – OTHER INFORMATION

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

H361	Suspected of causing damage to fertility or unborn child
H302	Harmful if swallowed
H332	Harmful if inhaled
H319	Causes serious eye irritation
H301	Toxic if swallowed
H318	Causes serious eye damage
H400	Very toxic to aquatic organisms
H410	Very toxic to aquatic organisms, with long-lasting effects

*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.*