

SAFETY DATA SHEET

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

Identification of the substance/mixture:

Name: Selenite Broth
Product code: LMT-03
Abbreviation: SEL
Use: A broth intended for the selective growth of Salmonella and Shigella bacteria.

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

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

Specific target organ toxicity (Category 2), H373

Hazardous to the aquatic environment (Category 4), H413

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

Label elements:

Pictogram



Signal word: Warning

Hazard statement:

H373 May cause damage to the kidneys, liver, urinary tract, digestive tract, spleen, bone marrow, heart and nerves
H413 May cause long-term adverse effects on aquatic organisms.

Precautionary statement(s)

P260 Do not inhale dust/smoke/gas/mist/vapor/aerosols.
P273 Avoid release to the environment.
P314 In the event of health problems, seek medical advice/care.
P314 Dispose of contents/container according to local regulations.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components:

INDEX	CAS	EC	Name	Classification	%
034-002-00-8	7782-82-3	231-966-3	Sodium hydrogen selenite	H301 H331 H373 H400 H410	0.4

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. In the event of health problems, seek medical advice.

Following eye contact:

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

Following skin contact:

Wash the affected areas with plenty of water. Remove contaminated clothing.

Following ingestion:

Let the victim drink water (no more than two glasses). In the event of nausea, seek medical advice.

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.

Specific hazards during fire fighting:

Nonflammable. Surrounding fire can release dangerous vapors.

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:

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

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with the substance.

Environmental precautions:

Avoid penetration into the drainage system.

Cleaning methods:

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

7 – HANDLING AND STORAGE

Handling:

No further requirements.

Storage:

Store tightly closed. Store at 2 – 8 °C.

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.

General hygiene:

Replace contaminated clothing. Use a lotion as a protective barrier. After work, wash your hands and face.

For more detailed information, see Section 11 – Toxicological Information

9 – PHYSICAL AND CHEMICAL PROPERTIES

Basic information

Physical state:	liquid
Color:	brownish
Odor:	characteristic
pH value:	6.9

10 – STABILITY AND REACTIVITY

Conditions to be avoided:

Protect from direct sunlight.

Substances to be avoided:

Strong oxidizing agents, strong acids.

Hazardous decomposition products:

No information available.

11 – TOXICOLOGICAL INFORMATION

Acute toxicity:

The product has a low degree of acute toxicity.

Additional toxicological data:

The following applies for selenium compounds in general: a strong irritant effect on the mucous membranes, in particular the eyes and the airways. Selenium acts as an enzymatic toxin after absorption of small doses. Typical smell of garlic when breathing, possible dermatitis, long-term action results in deterioration of central metabolism. Toxicological effect on the kidneys, liver, urinary tract, digestive tract, spleen, bone marrow, heart and nerves. Selenium is an important trace element for humans.

Other notes: Danger of cumulative effects.

Additional information:

Observe the principles of good industrial hygiene and occupational safety.

12 – ECOLOGICAL INFORMATION

Ecotoxicity:

The product may cause long-term adverse effects in the aquatic environment.

Other ecological data:

Selenium compounds and selenites: Biological effects: Fish: toxic for *C. Auratus* from 2 mg/l (18 days), LC₁₀₀: 2 mg/l, Crustaceans: Toxic for daphnia from 2.5 mg/l, Algae: Toxic for *Sc. quadricauda* from 2.5 mg/l. Protozoa: Approximate acute toxicity: 183 mg/l. Toxic for flagellates and protozoans from 0.0029 mg/l. Cold-blooded animals: approximate acute toxicity 2 mg/l.

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:

- H373 May cause damage to the kidneys, liver, urinary tract, digestive tract, spleen, bone marrow, heart and nerves
 - H413 May cause long-term adverse effects on aquatic organisms.
 - H301 Toxic if swallowed.
 - H331 Toxic if swallowed.
 - H400 Very toxic to aquatic organisms.
 - H410 Very toxic to aquatic organisms with long-lasting effects.
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*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.*