

SAFETY DATA SHEET

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

Identification of the substance/mixture:

Name: Acridine Orange Buffer Solution
Product code: LSB-04
Abbreviation: AO
Use: Staining solution designed for fluorescence microscopy.

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

Corrosive/irritating to skin (Category 2), H315
Serious eye damage/eye irritation (Category 2), H319
Acute toxicity, Inhalation (Category 4), H332

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

Label elements:

Pictogram



Signal word: Warning

Hazard statements:

H315 Irritating to skin
H319 Causes serious eye irritation
H332 Harmful if inhaled

Precautionary statement(s)

P261 Avoid inhaling smoke/mist/vapor/aerosols.
P264 Wash hands thoroughly after handling.
P271 Use only in open air or in a well-ventilated area.
P280 Use protective clothing/protective gloves/eye protection/face protection.
P312 In case of health problems, call the National Toxicological Information Center or a doctor.
P362 Take off contaminated clothing and wash before using it.
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.
P332+P313	If skin irritation occurs: Seek medical help/care immediately.
P337+P313	If eye irritation persists: Seek medical help/care immediately.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components:

INDEX	CAS	EC	Name	Classification	%
607-002-00-6	64-19-7	200-580-7	Acetic acid	H226 H290 H314	41

Other ingredients with a specified exposure limit:

INDEX	CAS	EC	Name	Classification	%
	10127-02-3	233-353-6	Acridine orange	H341	<0.01

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 eye contact:

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

Following skin contact:

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

Following ingestion:

Let the victim drink water (no more than two glasses). In the case of nausea, consult a doctor.

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 may develop: oxides of nitrogen, hydrochloric acid, vapors of acetic acid.

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 cool place at 2 – 8 °C. Protect from light.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Specific control parameter:

EC

Name: acetic acid

Value: 10 ml/m³
25 mg/m³

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:	orange
Odor:	acetic

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 oxidizing agents, nitrates, fluorine.

Hazardous decomposition products:

In case of fire: see Section 5.

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 and shortness of breath.

Following skin contact: slight irritation.

Following eye contact: slight irritation.

Following ingestion: burns of the mucous membranes in the oral cavity, throat, oesophagus and digestive tract.

Mutagenicity: suspected of causing genetic defects.

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:

For acetic acid, the following applies in general: Biological effects: toxic to aquatic organisms. Harmful effect due to pH shift. Easily biodegradable. Easily eliminable. Toxicity to fish: *Leuciscus* LC₅₀: 410 mg/l. Aquatic organisms: LC₅₀: 10 - 100 mg/l/96 hrs. No bioaccumulation is to be expected.

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.

15 – REGULATORY INFORMATION

16 – OTHER INFORMATION

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

H226 Flammable liquid and vapor.

H290	May be corrosive to metals.
H314	Causes serious skin burns and eye damage.
H315	Irritating to skin.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.

*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.*