

SAFETY DATA SHEET

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

Identification of the substance/mixture:

Name: Preparation Solution for the KATO Method
Product code: LSB-08
Abbreviation: KATO
Use: Staining solution designed for impregnation of cellophane strips for KATO method for parasitological examination of stools.

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

Flammable liquid (Category 3), H226
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Dermal (Category 4), H312
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:

H226 Flammable liquid and vapor.
H302 Harmful if swallowed
H312 Harmful in contact with skin
H332 Harmful if inhaled

Precautionary statement(s)

P210 Keep away from heat / sparks / open flame / hot surfaces. Do not smoke.
P233 Keep the container tightly closed.
P240 Ground/fix the container and the filler.
P241 Use an electrical / ventilation / lighting device designed for an explosive atmosphere.
P242 Only use non-sparking equipment.
P243 Take precautionary measures against static electricity.
P261 Avoid inhaling gas / mist / vapor / 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	Use protective clothing/eye protection/protective gloves/face protection.
P330	Rinse your mouth.
P301+P312	Following ingestion: If you have any health problems, call the National Toxicology Information Center or a doctor immediately.
P302+P352	Following skin contact: Wash with plenty of soap and water.
P363	Wash contaminated clothing before using it.
P304+P340	Following inhalation: Move the victim to fresh air and keep in a relaxed, motionless position that allows comfortable breathing.
P303+P361+P353	Following skin contact: Remove/take off all contaminated clothing. Immediately rinse the skin with water.
P370+P378	In case of fire: To extinguish use a foam/snow/water/powder fire extinguisher, depending on the materials in the immediate vicinity.
P403+P235	Keep in a well-ventilated place. Store in a cool place.
P501	Dispose of contents/container in accordance with local regulations.

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components:

INDEX	CAS	EC	Name	Classification	%
603-002-00-5	64-17-5	200-578-6	Ethanol	H225 H319	46.88
604-001-00-2	108-95-2	203-632-7	Phenol	H341 H331 H311 H301 H373 H314	2.8
602-096-00-5	2437-29-8	219-441-7	Malachite green	H301 H318 H361 H400 H410	0.02

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 mechanical ventilation immediately; use oxygen, if necessary. Seek medical help.

Following eye contact:

Rinse the eyes with eyelids open under running water for a few minutes. If necessary, seek an ophthalmologist.

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). Seek medical help immediately.

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:

Flammable. Vapors are heavier than air. Forms explosive mixtures with air at normal temperatures. In the event of fire, hazardous vapors and fumes may develop. In the event of fire, the following may develop: acrolein, oxides of nitrogen.

Beware of flicking flames.

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 protective clothing.

Additional information:

Cool closed containers exposed to fire by spraying with water. Avoid contamination of the surface or groundwater system with water used for fire extinguishing.

6 – ACCIDENTAL RELEASE MEASURES

Personal precautions:

Prevent inhalation of vapors/aerosols. Avoid contact with the substance. Provide adequate ventilation.

Environmental precautions:

Do not drain into sewer system.

Cleaning methods:

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

7 – HANDLING AND STORAGE

Handling:

Work with the suction chamber. Do not inhale the substance.

Keep away from exposed fire, hot surfaces and sources of ignition. Take precautionary measures against static electricity.

Storage:

Store in a dark bottle tightly closed in a well-ventilated place. Store at 5 – 25 °C.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

Components

Nature	Value	Inspection parameters	Limiting value, Remarks
<i>phenol (108-95-2)</i>			
ECLTV	Effects upon skin contact: Average maximum permissible exposure limit (MPEL average):	2 ppm 7.8 mg/m ³	The factor can be easily absorbed by the skin
SLK OELs	Effects upon skin contact: Average maximum permissible exposure limit (MPEL average):	2 ppm 7.8 mg/m ³	The factor can be easily absorbed by the skin
<i>ethanol (64-17-5)</i>			
SLK OELs	PK CAT		Systemic effect factor beginning at ≤ 2 years; duration of exposure: 15 minutes average value; exposure frequency: 4; interval between exposures: 1 hour
	CEILING	1920 mg/m ³	
	TWA	500 ppm 960 mg/m ³	

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 tightly fitting safety goggles.

Respiratory protection:

Required if vapors / aerosols are formed.

Protective measures:

Non-flammable clothing, antistatic non-flammable clothing.

General hygiene:

Replace contaminated clothing. It is recommended to use a skin cream as a protective barrier. After working with the product, wash your hands.

For more detailed information, see Section 11 – Toxicological Information

9 – PHYSICAL AND CHEMICAL PROPERTIES

Basic information:

Physical state:	liquid
Color:	green
Odor:	alcoholic
pH value:	not specified
Boiling point / distillation range:	78 °C

10 – STABILITY AND REACTIVITY

Conditions to be avoided:

Slight heating.

Substances to be avoided:

Risk of explosion with: halogen, strong oxidizing agents, peroxide compounds, nitric acid, sulfuric acid, hydrogen peroxide, perchlorates, nitriles

Risk of ignition or formation of flammable gases or vapors with: CrO₃, potassium permanganate, halogen oxides, hydrides, alkali metals, alkaline earth metals, strong oxidizing agents, chromyl chloride, ethylene oxide, fluorine, perchlorates, perchloric acid, phosphorus oxides, nitrogen dioxide, uranium fluoride, hydrogen peroxide.

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:

Dangerous properties cannot be ruled out but are unlikely, if the product is handled appropriately.

Possible symptoms: drowsiness, drunkenness, confusion, unconsciousness, dizziness, headache, cardiovascular disorders, nausea, vomiting, mucosal irritation.

Additional information:

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:

At high concentrations: harmful effect on aquatic organisms. Avoid penetration into surface and groundwater.

No ecological problems are to be expected, if the product is handled and used with due care and attention.

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

Land transport: ADR, RID

UN 1170 ETHANOL, 3, III

River transport: ADN, ADNR

not tested

Maritime transport: IMDG-Code

UN 1170 ETHANOL, 3, III

The transport regulations are cited in accordance with international regulations and are in a form applicable in the Slovak Republic. Possible national variations in individual countries are not considered.

15 – REGULATORY INFORMATION

16 – OTHER INFORMATION

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

H225	Very flammable liquid and vapor
H301	Toxic if swallowed
H302	Harmful if swallowed
H332	Harmful if inhaled
H226	Flammable liquid and vapor.
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H331	Toxic if inhaled
H311	Toxic in contact with skin.
H312	Harmful in contact with skin
H373	May cause damage to the central nervous system, kidneys, liver, skin
H314	Causes serious skin burns and eye damage
H318	Causes serious eye damage
H361	Suspected of causing damage to fertility or unborn child
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.