LEXSY BHI - Liquid Media Kit

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name:	LEXSY BHI – Liquid Media Kit
Catalog Number:	ML-411
Supplier:	Jena Bioscience GmbH Loebstedter Strasse 71 07749 Jena, Germany
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2. HAZARDS IDENTIFICATION

GHS classification according to Regulation (EC) No 1272/2008
Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H335
Skin Sens. 1; H317
Resp. Sens. 1; H334

GHS Label elements:
Pictogram:

Signal word: Danger

Hazard statements:

H315:	Causes skin irritation.
H317:	May cause an allergic skin reaction.
H319:	Causes serious eye irritation.
H334:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335:	May cause respiratory irritation.

Precautionary statements:

P261:	Avoid breathing vapors.
P280:	Wear protective gloves / protective clothing / eye protection.
P285:	In case of inadequate ventilation wear respiratory protection.
P302 + P352:	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341:	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P333 + P313:	If skin irritation or rash occurs: Get medical advice / attention.

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P305 + P351 + P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342 + P311:	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Additional information:
Laboratory chemicals must be handled only by qualified personnel and with precaution.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures / Hazardous components:
The kit contains the following components:

Ingredient Name	CAS #	Pictogram	H-Phrase	P-Phrase	C (max)	Amount
LEXSY BHI	-		H315, H319, H335	P280 P302+P352 P304+P341 P305+P351+P338	-	1 L (in ML-411S) or 5 L (in ML-411L)
ML-108 Hemin (porcine)	16009-13-5	-	-	-	0.25 %	2 ml (ML-108S) or 10 ml (ML-108L)
ML-108 Triethanolamine	102-71-6				50 %	
ML-105 Penicillin G sodium salt	69-57-8		H317, H334	P261, P280, P285 P304 + P341 P333 + P313 P342 + P311	1.5 %	5 ml (ML-105S) or 25 ml (ML-105L)
ML-105 Streptomycin sulfate	3810-74-0				1.5 %	

4. FIRST AID MEASURES

General advice: Consult a physician. Show this material safety data sheet to the doctor in attendance.
After skin contact: Immediately wash skin with soap and plenty of water. Consult a physician.
After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.
After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.
After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, carbon dioxide, dry chemical powder or appropriate foam.

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Specific hazards arising from the chemical: Hazardous decomposition products formed under fire conditions; carbon oxides, nitrogen oxides, iron oxides and hydrogen chloride gas.
Special Firefighting Procedures: Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear protective equipment. Keep unprotected persons away.
Environmental precautions: Do not let product enter drains.
Method for Cleaning Up: Keep in suitable, closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area, clean and disinfect spill site after material clean-up is complete. For Kit component ML-105: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.
User Exposure: Avoid inhalation. Use personal protective equipment (i.e. impermeable gloves, lab coat or appr.).
Storage: Keep tightly closed. Store as indicated (according to section 10) at RT / 4°C / -20°C, protect from light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation and cleanable resistant tightly sealed working surfaces.
Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection: Handle with gloves to prevent skin contact.
Eye protection: Wear chemical safety goggles to prevent eye contact.
Skin and body protection: Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
General Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

The Kit consists of 3 components (LEXSY BHI / ML-105 / ML-108, according to section 3)

Appearance:

Form:	liquid / frozen / liquid
Color:	beige / colorless / dark aubergine

Safety data:

pH:	final pH 7.6 ± 0.2
Melting point:	No data available
Boiling point:	100°C; N/A.
Flash point:	No data available

Ignition temperature:	No data available
Thermal decomposition:	No data available
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Vapor pressure:	No data available
Solubility in / Miscibility with water:	No data available
Segregation coefficient (n-octanol / water):	No data available
Decomposition temperature:	>100°C
Viscosity, dynamic:	No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical stability: Stable under recommended storage conditions at room temperature for 12 months (LEXSY BHI), at 4°C for 12 months in the dark (ML-108), at -20°C for 12 months (ML-105).
Possibility of hazardous reactions: No data available
Conditions to avoid: Heat, strong oxidizing agents, strong acids.
Incompatible materials: Strong oxidizing agents, strong bases.
Hazardous decomposition products:
Kit component ML-108: Thermal decomposition can lead to release of irritating gases and vapors such as carbon oxides.

11. TOXICOLOGICAL INFORMATION

For detailed description, refer to the respective MSDS of components (Cat.-No. ML-105 and ML-108).

Acute toxicity:
Kit component ML-108 (Hemin):
LD50 oral: 30g/kg rat
Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

Signs / Symptoms of exposure:
Kit component ML-108:
Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.

Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available

Respiratory or skin sensitization: Kit component ML-105: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. May cause allergic skin reactions.

Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Additional information:	RTECS: No data available (LEXSY BHI) RTECS: No data available (Hemin) RTECS: KL9275000 (Triethanolamine) RTECS: WK4990000 (Streptomycin sulfate) RTECS: XH9800000 (Penicillin G sodium salt)

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available
Persistence and degradability:	Biodegradability (Triethanolamine), BHI media and DNA preparations are degradable.
Bioaccumulative potential:	No data available
Mobility in soil:	No data available
General notes:	Kit component LEXSY BHI and ML-105: Generally not hazardous for water. Kit component ML-108: May cause long-term adverse effects in the aquatic environment. Do not flush into surface water or sanitary sewer system.

Results of PBT and vPvB assessment:

PBT:	No data available
vPvB:	No data available

13. DISPOSAL CONSIDERATIONS

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. The material for disposal should be mixed with, or dissolved in, a combustible solvent and burnt in a chemical incinerator equipped with an afterburner scrubber. BHI media, cultures and DNA preparations can be autoclaved (20 min 121°C) and disposed of together with household garbage.
Contaminated Packaging: Kit component LEXSY BHI and ML-108: Dispose of as unused product. Kit component ML-105: Disposal must be made according to official regulations.
Cleansing agents: Kit component ML-105: Water, if necessary together with cleansing agents.

14. TRANSPORT INFORMATION

ADR / RID:	Not dangerous goods
DOT (US):	Not dangerous goods
IMDG:	Not dangerous goods
ICAO / IATA:	Not dangerous goods
UN "Model Regulation":	Not dangerous goods

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15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture:

No data available

15.2 Australian Inventory of Chemical Substances in LEXSY BHI medium:

CAS #	Substances
7647-14-5	Sodium chloride
7558-79-4	Sodium phosphate, dibasic
50-99-7	Dextrose

15.3 Chemical Safety Assessment: No data available

16. OTHER INFORMATION

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Users should make independent decisions regarding completeness of the information based on all sources available.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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