

MATERIAL SAFETY DATA SHEET**SECTION 1 - Product and Company Information**

Product name: Lep (Mouse/Rat) ELISA Kit
Company: Abnova (Taiwan) Corporation
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SECTION 2 - Hazards Identification**Classification of the substance or mixture**

Classification according to Regulation 1272/2008/EC:

Not classified as dangerous.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). (USA)

Label elements

Not applicable.

Other hazards

Concentration limits for classification as dangerous are not met.

SECTION 3 - Composition/Information on Ingredient**Mixtures****Stop Solution**

Ingredient	Conc. in w/w%	EINECS	CAS-Nr.
Sulphuric acid, 98%	1-3	231-639-5	7664-93-9

Classification according to regulation 1272/2008/EC:

Skin Corr. 1A, H314

Specific concentration limits: Skin Corr. 1A, H314: C \geq 15 %; Skin Irrit. 2, H315: 5 % \leq C<15 %; Eye Irrit. 2, H319: 5 % \leq C<15 %.

Kit Components

Antibody Coated Microtiter Strips

No hazardous ingredients.

Biotin Labelled Antibody Conc. 10x

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.

Streptavidin-HRP Conjugate

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.

Master Standard MOUSE

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.

Master Standard RAT

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010

Quality Control MOUSE

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010. Contains material of animal origin. These material should be handled as potentially infectious.

Quality Control RAT

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010. Contains material of animal origin. These material should be handled as potentially infectious.

Dilution Buffer

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010. Contains material of animal origin. These material should be handled as potentially infectious.

Biotin-Ab Diluent

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.

Wash Solution Conc. 10x

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required

according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.

Substrate solution

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet is not required according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010.

Stop Solution

Not a hazardous mixture according to Regulation (EC) No. 1272/2008. Safety Data Sheet for this mixture according to Regulation (EC) No. 1907/2006 and Regulation (EU) No. 453/2010 is attached.

SECTION 4 - First aid measures

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Immediately stop the exposure, take the affected person to fresh air. Keep the affected person warm. Get medical attention if irritation, shortness of breath or other symptoms persists.

In case of skin contact

Take off contaminated clothing. Wash the affected area with plenty of lukewarm water, if possible. If skin is not irritated, soap, soap solution or shampoo can be used. Get medical attention if irritation persists.

In case of contact with eyes

Rinse the eyes immediately with plenty of running water keeping eyelids open; if the affected person wears contact lenses, remove them immediately. Continue rinsing for minimum 10 minutes. Get medical attention.

If ingested

DO NOT INDUCE VOMITING – even the act of inducing vomiting may cause complications. Rinse mouth, if possible, administer a small dose of activated carbon (1-2 crushed tablets); do not attempt neutralization. Get medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation: Possible respiratory tract irritation, cough, headache.

Skin contact: Painful reddening, irritation.

Eye contact: May cause irritation.

Ingestion: May cause irritation, sickness.

Indication of any immediate medical attention and special treatment needed

Immediate medical attention is not necessary.

SECTION 5 - Fire fighting measures

Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, carbon dioxide, powder, dispersed water, water spray.

Unsuitable extinguishing media: none known.

Special hazards arising from the substance or mixture

In case of fire sodium oxides can be released.

Advice for firefighters

Keep the contaminated fire-extinguishing media away from drains, surface and ground water. If necessary, wear a suitable self-contained breathing apparatus and full protective clothing.

SECTION 6 - Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation. Wear proper protective equipment, refer to Section 8.

Environmental precautions

Avoid soil contamination and keep away from surface and ground water. Avoid spills and keep away from drains.

Methods and materials for containment and cleaning up

Cover spills with suitable (non-flammable) absorbent (sand, diatomaceous earth, soil, and other suitable absorbent material); collect in a tightly closed container and dispose of in compliance with Section 13. Dispose of the contained material in accordance with local regulations. After containment, wash the affected area with plenty of water or other suitable detergent.

SECTION 7 - Handling and storage

Precautions for safe handling

Do not inhale gases and vapours. Avoid contact with the skin and the eyes. Wear suitable personal protective equipment according to Section 8. Comply with local and national regulations on occupational health and safety. Avoid long-term and repeated exposure.

Conditions for safe storage, including any incompatibilities

Keep in tightly closed containers and in cool, dry and well ventilated designated places. Open packaging must be carefully closed and kept in a vertical position to avoid release or spill. Keep away from alkaline materials.

SECTION 8 - Exposure Controls

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Use in a well ventilated area.

Individual protection measures, such as personal protective equipment

Take usual occupational health and safety measures. If it is impossible to meet exposition limits, suitable respiratory protective equipment must be used. When using, do not eat, drink and smoke. Wash hands carefully with water and soap after work and before breaks.

Eye/face protection: Use protective glasses (according to EN 166).

Skin protection: i) Hand protection: Use suitable protective gloves resistant to the product. Follow the recommendations of the gloves manufacturer when selecting the appropriate thickness, material and permeability. In the event of long-term or repeated dermal exposure, apply suitable hand cream to the parts of the skin in direct contact with the mixture. Follow other recommendations of the manufacturer.

ii) Other: Protective cotton clothing. Carefully wash the skin exposed to the product.

Respiratory protection: If necessary, wear a face respirator (according to EN 14387).

Thermal hazards: No information available.

SECTION 9 - Physical and chemical properties

Appearance Form: liquid

Odour no data available

Odour Threshold no data available

pH no data available

Melting point/freezing point no data available

Initial boiling point and boiling range no data available

Flash point no data available

Evaporation rate no data available

Flammability (solid, gas) no data available

Upper/lower flammability or explosive limits no data available

Vapour pressure no data available

Vapour density no data available

Relative density no data available

Water solubility no data available

Partition coefficient: n-octanol/water no data available

Autoignition temperature no data available

Decomposition temperature no data available

Viscosity no data available

Explosive properties no data available

Oxidizing properties no data available

SECTION 10 - Stability and reactivity

Reactivity

No hazardous reactions occur under common conditions of use.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Reacts with strong bases.

Conditions to avoid

No data available.

Incompatible materials

Not known under recommended conditions of use.

Hazardous decomposition products

They are not produced under normal use. In the event of fire: sulphur oxides.

SECTION 11 - Toxicological information

Information on toxicological effects

Acute toxicity

No data available on the product itself.

Sulphuric acid:

LD50, oral, rat: 3140 mg/kg

LD50, inhalation, rat: 510 mg/m³/2 h

Chronic toxicity

Sensitisation: No data available.

Narcotic effects: No data available.

Carcinogenicity: No data available.

Mutagenity: No data available.

Reproduction toxicity: No data available.

SECTION 12 - Ecological information

Toxicity

No data available on the product itself.

Sulphuric acid:

LC50, fish, *Gambusia affinis*, 96 h: 42 mg/l

LC50, crustaceans, *Pandalus montagui*, 48 h: 42,5 mg/l

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Does not meet the criteria for PBT and vPvB.

Other adverse effects

No data available

SECTION - 13 Disposal Considerations

Waste treatment methods

Proceed in accordance with Act No. 185/2001 Coll., the Waste Act, as amended, Act No. 188/2004 Coll., to amend Act No. 185/2001 Coll.; Act No. 477/2001 Coll., to regulate packaging and to amend some statutes (the Packaging Act), as amended and in accordance with implemented regulations on waste disposal.

Appropriate methods of waste treatment of both the substance or the mixture and any contaminated packaging:

The indicated waste, including the waste identification sheet, shall be handed over to a company authorized to treat and dispose of wastes according to the Waste Act and that the company producing waste has entered into a contract with.

Both completely empty and not completely empty packaging shall be placed in designated containers for waste collection and the indicated waste shall be handed over for disposal to a person authorized to dispose of the waste.

Waste type code 060101
Waste type sulphuric acid and sulphurous acid *
Waste subgroup waste from production, processing, distribution and use (VZDP) of acids
Waste group WASTE CREATED BY ANORGANIC CHEMICAL PROCESSES

Waste type code for packaging 150110

Waste type packaging containing residues of dangerous substances or packaging contaminated with these substances *

Waste subgroup Packaging (including separately collected household packaging material)

Waste group WASTE PACKAGING; ABSORPTION AGENTS; CLEANING CLOTHS; FILTRATION MATERIALS AND PROTECTIVE CLOTHING NOT SPECIFIED IN ANY OTHER MANNER

(*) – hazardous waste according to Directive No. 91/689/EEC on hazardous waste

SECTION 14 - Transport information

UN number

Not regulated.

UN proper shipping name

Not regulated.

Transport hazard class(es)

Not regulated.

Packing group

Not regulated.

Environmental hazards

No data available.

Special precautions for user

No data available.

Transport in bulk according to Annex II of Marpol73/78 and the IBC Code

No data available.

SECTION 15 - Regulatory information

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

Act No. 350/2011 Coll., to regulate chemical substances and chemical mixtures and to amend some statutes, as amended. Implemented regulations to Act No. 350/2011 Coll., as amended The Waste Act as amended. Government Decree No. 361/2007 Coll., to regulate the conditions of occupational health and safety, as amended. Regulation of the European Parliament and the Council (EC) No.

1907/2006 (REACH). Regulation of the European Parliament and the Council (EC) No. 1272/2008 (CLP). Commission Regulation (EU) No. 453/2010.

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 311: sulphuric acid.

Chemical safety assessment

Chemical safety assessment has not been carried out.

SECTION 16 - Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Abnova shall not be held liable for any damage resulting from handling or from contact with the above product.