SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: LBIS Mouse anti-dsDNA ELISA Kit / Stop Solution
- Article number: 637-02691_F

1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the preparation: Laboratory chemicals
- Uses advised against
  - Only for professional use.
  - Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  - FUJIFILM Wako Chemicals Europe GmbH
  - Fuggerstr. 12
  - 41468 Neuss
  - Deutschland
  - Tel: +49 (0) 2131-311-0
  - Fax: +49 (0) 2131-311 100
- Further information obtainable from: msds_eu@fujifilm.com

1.4 Emergency telephone number: +49 (0) 2131-311-0 (8h-16h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  - Skin Irrit. 2 H315 Causes skin irritation.
  - Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  - The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms

GHS07

- Signal word Warning
- Hazard statements
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
- Precautionary statements
  - P264 Wash thoroughly after handling.
  - P280 Wear protective gloves / eye protection.

(Cont. on page 2)
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards
· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components</th>
<th>CAS: 77-92-9</th>
<th>citric acid</th>
<th>Eye Irrit. 2, H319</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 201-069-1</td>
<td></td>
<td></td>
<td>20-40%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dangerous components</th>
<th>CAS: 7664-93-9</th>
<th>sulphuric acid</th>
<th>Skin Corr. 1A, H314</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 231-639-5</td>
<td></td>
<td></td>
<td>≥5-&lt;7%</td>
</tr>
</tbody>
</table>

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
· General information: Immediately remove any clothing soiled by the product.
· After inhalation: Supply fresh air; consult doctor in case of complaints.
· After skin contact:
  Immediately wash with water and soap and rinse thoroughly.
  If skin irritation continues, consult a doctor.
· After eye contact:
  Rinse opened eye for several minutes under running water. Then consult a doctor.
· After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed
· Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
· Suitable extinguishing agents:
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· For safety reasons unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
· Protective equipment: No special measures required.
SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
  Remove persons from danger area.
  Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
  Do not allow product to reach sewage system or any water course.
  Prevent seepage into sewage system, workpits and cellars.
  Dilute with plenty of water.
- 6.3 Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
- 6.4 Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling
  No special measures required.
  Ensure good ventilation/exhaustion at the workplace.
- 7.2 Conditions for safe storage, including any incompatibilities
  Storage:
  - Requirements to be met by storerooms and receptacles:
    Store only in the original receptacle.
    Store in cool, dry conditions in well sealed receptacles.
  - Information about storage in one common storage facility: Store away from foodstuffs.
  - Further information about storage conditions:
    Protect from frost.
    2-10 °C
  - Storage class: 8 B
  - 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
  - Additional information about design of technical facilities: No further data; see item 7.
  - Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists valid during the making were used as basis.

(Cont. on page 4)
- 8.2 Exposure controls
- Personal protective equipment:
- General protective and hygienic measures:
Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
Storing food in the working area is prohibited.
- Respiratory protection: Not necessary if room is well-ventilated.
- Protection of hands:

![Protective gloves]

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374.

- Eye protection:

![Safety glasses]

The protective safety glasses to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN166.

- Body protection: Protective work clothing

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**SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Liquid
  - Colour: According to product specification
  - Odour: Characteristic
  - Odour threshold: Not determined.
- pH-value at 20 °C: <2.5
- Change in condition
  - Melting point/freezing point: Undetermined.
  - Initial boiling point and boiling range: Undetermined.
- Flash point: Not applicable.
- Flammability (solid, gas): Not applicable.
- Ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Not determined.

(Cont. on page 5)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.07.2022
Version number 1.0
Revision: 07.07.2022

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· Explosion limits:
  Lower: Not determined.
  Upper: Not determined.

· Vapour pressure: Not determined.

· Density:
  Relative density: Not determined.
  Vapour density: Not determined.
  Evaporation rate: Not determined.

· Solubility in / Miscibility with water: Fully miscible.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

· 9.2 Other information
  No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity
  No further relevant information available.

· 10.2 Chemical stability
  Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions
  No dangerous reactions known.

· 10.4 Conditions to avoid
  See “Fire Fighting measures”.

· 10.5 Incompatible materials:
  No further relevant information available.

· 10.6 Hazardous decomposition products:
  No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects
  Acute toxicity
  Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

<table>
<thead>
<tr>
<th>Chemical</th>
<th>LD50/LC50 Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>77-92-9 citric acid</td>
<td>Oral 5,040 mg/kg (mouse)</td>
</tr>
<tr>
<td>7664-93-9 sulphuric acid</td>
<td>Inhalative 0.347 mg/l (rat)</td>
</tr>
</tbody>
</table>

· Primary irritant effect:
  · Skin corrosion/Irritation
    Causes skin irritation.
  · Serious eye damage/Irritation
    Causes serious eye irritation.
  · Respiratory or skin sensitisation
    Based on available data, the classification criteria are not met.

(Cont. on page 6)
Safety data sheet
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- Additional toxicological information:
  - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
  - Germ cell mutagenicity Based on available data, the classification criteria are not met.
  - Carcinogenicity Based on available data, the classification criteria are not met.
  - Reproductive toxicity Based on available data, the classification criteria are not met.
  - STOT-single exposure Based on available data, the classification criteria are not met.
  - STOT-repeated exposure Based on available data, the classification criteria are not met.
  - Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity:
    7664-93-9 sulphuric acid
    LC50/96 h 16-28 mg/l (fish)
  - 12.2 Persistence and degradability No further relevant information available.
  - 12.3 Bioaccumulative potential No further relevant information available.
  - 12.4 Mobility in soil No further relevant information available.
  - Additional ecological information:
    - General notes: Not hazardous for water.
  - 12.5 Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
    Contact waste processors for recycling information.
  - Uncleaned packaging:
    - Recommendation:
      Disposal must be made according to official regulations.
      Packagings that may not be cleansed are to be disposed of in the same manner as the product.
    - Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, IMDG, IATA UN2796
- 14.2 UN proper shipping name
  - ADR 2796 SULPHURIC ACID mixture
Trade name: LBIS Mouse anti-dsDNA ELISA Kit / Stop Solution

- IMDG, IATA
  - 14.3 Transport hazard class(es)
  - ADR, IMDG, IATA
  - Class
  - Label
  - 14.4 Packing group
  - ADR, IMDG, IATA
  - 14.5 Environmental hazards:
  - 14.6 Special precautions for user
    - Hazard identification number (Kemler code): 80
    - EMS Number: F-A,S-B
    - Segregation groups
    - Stowage Category
    - Segregation Code
  - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
  - Transport/Additional information:
    - ADR
      - Limited quantities (LQ) 1L
      - Excepted quantities (EQ) Code: E2
    - Transport category
    - Tunnel restriction code
    - IMDG
      - Limited quantities (LQ) 1L
      - Excepted quantities (EQ) Code: E2
  - UN "Model Regulation": UN 2796 SULPHURIC ACID MIXTURE, 8, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
Safety data sheet
according to 1907/2006/EC, Article 31

Trade name: LBIS Mouse anti-dsDNA ELISA Kit / Stop Solution

(Cont. from page 7)

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H314 Causes severe skin burns and eye damage.
  - H319 Causes serious eye irritation.

- **Creation Date** 07.07.2022

- **Abbreviations and acronyms:**
  - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Skin Corr. 1A: Skin corrosion/irritation – Category 1A
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- * Data modified compared to previous version.