1. Identification

Product identifier: CircuLex Human DJ-1/PARK7 ELISA Kit Ver.2

Other means of identification
- Product code: CY-9050V2
- Recommended use: Research use only.
- Recommended restrictions: None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer and Supplier (Asia)
- Medical & Biological Laboratories (MBL) Co., Ltd.
  - Telephone number: +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
  - Fax: +81-52-238-1440
  - E-mail: sds-support@mbl.co.jp
  - URL: http://www.mbl.co.jp/e/index.html
  - Contact person: SDS Support

Supplier
- MBL International Corporation
  - Telephone number: +1-800-200-5459, option 3
  - Fax: +1-781-939-6963
  - E-mail: tech@mblintl.com
  - URL: http://www.mblintl.com/
  - Contact person: Technical Service

2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards: Skin corrosion/irritation Category 1, Serious eye damage/eye irritation Category 1
OSHA hazard(s): Not classified.

Label elements
- Hazard symbol

Signal word: Danger
Hazard statement: Causes severe skin burns and eye damage.
Precautionary statement
- Prevention: Do not breathe dust or mist. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.
- Response: IF SWALLOWED: Rinse mouth. Do not induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
- Storage: Store locked up.
- Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/Information on ingredients

Mixtures
4. First-aid measures

**Inhalation**
Move injured person into fresh air and keep person calm under observation. If breathing is difficult, trained personnel should give oxygen. Get medical attention if any discomfort continues.

**Skin contact**
Take off immediately all contaminated clothing. Flush skin thoroughly with water. Get medical attention immediately. Chemical burns must be treated by a physician.

**Eye contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove any contact lenses and open eyelids wide apart. Continue rinsing. Get medical attention immediately.

**Ingestion**
Rinse mouth thoroughly. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn’t enter the lungs. Get medical attention if any discomfort continues.

5. Fire-fighting measures

**Suitable extinguishing media**
Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
By heating and fire, harmful vapors/gases may be formed.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire-fighting equipment/instructions**
Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**
Avoid inhalation of spray mist and contact with skin and eyes. Wear appropriate personal protective equipment.

**Methods and materials for containment and cleaning up**
Absorb spillage with non-combustible, absorbent material. Collect in containers and seal securely.

**Environmental precautions**
Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

**Precautions for safe handling**
Avoid inhalation of spray mist and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene.

**Conditions for safe storage, including any incompatibilities**
Keep container closed. Do not store near heat sources or expose to high temperatures. Protect from direct sunlight.

8. Exposure controls/personal protection

**Occupational exposure limits**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>PEL</td>
<td>1 mg/m3</td>
</tr>
</tbody>
</table>
US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>TWA</td>
<td>0.2 mg/m³</td>
<td>Throracic fraction</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td>REL</td>
<td>1 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

- **Eye/face protection**
  Wear approved chemical safety goggles.

- **Skin protection**
  Use suitable protective gloves if risk of skin contact. Butyl rubber gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

- **Hand protection**
  Wear protective clothing appropriate for the risk of exposure.

- **Respiratory protection**
  If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. Chemical respirator with acid gas cartridge.

- **Respiratory protection**
  Wear air-purifying respirator with P2 filter.

- **Respiratory protection**
  Wear protective clothing appropriate for the risk of exposure.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

**Appearance**

- **Physical state**
  Liquid.

- **Form**
  Liquid.

- **Color**
  Colorless.

- **Odor**
  Odorless.

- **Odor threshold**
  Not available.

- **pH**
  Not available.

- **Melting point/freezing point**
  Not available.

- **Initial boiling point and boiling range**
  Not available.

- **Flash point**
  Not available.

- **Evaporation rate**
  Not available.

- **Flammability (solid, gas)**
  Not applicable.

- **Upper/lower flammability or explosive limits**
  Flammability limit - lower (%)
  Not available.

  Flammability limit - upper (%)
  Not available.

- **Vapor pressure**
  Not available.

- **Vapor density**
  Not available.

- **Relative density**
  Not available.

- **Solubility(ies)**
  Soluble in water.

- **Partition coefficient (n-octanol/water)**
  Not available.

- **Auto-ignition temperature**
  Not available.

- **Decomposition temperature**
  Not available.

- **Viscosity**
  Not available.

10. Stability and reactivity

**Reactivity**
Reacts violently with strong bases.

**Chemical stability**
Stable under normal temperature conditions.
### Possibility of hazardous reactions
This product may react with reducing agents.

### Conditions to avoid
- Sunlight.
- Heat.
- Freezing.

### Incompatible materials
- Reducing agents.
- Alkalis.
- Metals.

### Hazardous decomposition products
- Sulfur dioxide.

### Ecological information

#### Information on likely routes of exposure

**Ingestion**
- May cause discomfort if swallowed. Ingestion may cause nausea, headache and dizziness.

**Inhalation**
- Spray mists may cause respiratory tract irritation.

**Skin contact**
- Causes skin burns.

**Eye contact**
- Causes severe eye burns.

#### Symptoms related to the physical, chemical and toxicological characteristics
- Burning pain and severe corrosive skin damage. Extreme irritation of eyes and mucous membranes, including burning and tearing.

### Information on toxicological effects

#### Acute toxicity
- Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2,140 mg/kg</td>
</tr>
</tbody>
</table>

#### Skin corrosion/irritation
- Causes severe skin burns.

#### Serious eye damage/eye irritation
- Causes eye burns.

#### Respiratory sensitization
- No data available.

#### Skin sensitization
- No data available.

#### Germ cell mutagenicity
- No data available.

#### Carcinogenicity
- Exposure to strong inorganic acid mists containing sulfuric acid has been classified as carcinogenic to humans. The information located is insufficient to conclude that sulfuric acid itself is a carcinogen.

#### Reproductive toxicity
- No data available.

#### Specific target organ toxicity

- **- single exposure**
  - No data available.

- **- repeated exposure**
  - No data available.

#### Aspiration hazard
- No data available.

### Ecotoxicity
- Large amounts of the product may affect the acidity (pH-factor) in water with possible risk of harmful effects to aquatic organisms.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid (CAS 7664-93-9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Western mosquitofish (Gambusia affinis)</td>
</tr>
</tbody>
</table>

#### Persistence and degradability
- No data available.

#### Bioaccumulative potential
- No data available.

#### Mobility in soil
- No data available.

#### Mobility in general
- The product is water soluble and may spread in water systems.

#### Other adverse effects
- None known.

### Disposal considerations

#### Disposal instructions
- Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
14. Transport information

**DOT**
- **UN number**: UN2796
- **UN proper shipping name**: Sulphuric acid solution
- **Transport hazard class(es)**: 8
- **Subsidiary class(es)**: -
- **Packing group**: II
- **Special precautions for user**: Read safety instructions, SDS and emergency procedures before handling.
- **Labels required**: 8
- **Special provisions**: A3, A7, B2, B15, IB2, N6, N34, T8, TP2, TP12
- **Packaging exceptions**: 154
- **Packaging non bulk**: 202
- **Packaging bulk**: 242

**IATA**
- **UN number**: UN2796
- **UN proper shipping name**: Sulphuric acid solution
- **Transport hazard class(es)**: 8
- **Subsidiary class(es)**: -
- **Packing group**: II
- **Environmental hazards**: No
- **Labels required**: 8
- **ERG Code**: 8L
- **Special precautions for user**: Read safety instructions, SDS and emergency procedures before handling.

**IMDG**
- **UN number**: UN2796
- **UN proper shipping name**: Sulphuric acid solution
- **Transport hazard class(es)**: 8
- **Subsidiary class(es)**: -
- **Packing group**: II
- **Environmental hazards**: No
- **Marine pollutant**: No
- **Labels required**: 8
- **EmS**: F-A, S-B
- **Special precautions for user**: Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- **Special provisions**: Not applicable.

15. Regulatory information

**US federal regulations**
- **This product is not hazardous according to OSHA 29CFR 1910.1200.**
- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**: Not regulated.
- **CERCLA Hazardous Substance List (40 CFR 302.4)**: Sulfuric acid (CAS 7664-93-9) Listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**
### Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

### SARA 302 Extremely hazardous substance
- No

### SARA 311/312 Hazardous chemical
- Yes

### SARA 313 (TRI reporting)
- Not regulated.

### Other federal regulations
- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
  - Not regulated.
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
  - Sulfuric acid (CAS 7664-93-9)

### Safe Drinking Water Act (SDWA)
- Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
  - Sulfuric acid (CAS 7664-93-9)
- Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
  - Sulfuric acid (CAS 7664-93-9)
- DEA Exempt Chemical Mixtures Code Number
  - Sulfuric acid (CAS 7664-93-9)

### US state regulations
- Massachusetts RTK - Substance List
  - Sulfuric acid (CAS 7664-93-9)
- New Jersey Worker and Community Right-to-Know Act
  - Sulfuric acid (CAS 7664-93-9)
- Pennsylvania RTK - Hazardous Substances
  - Sulfuric acid (CAS 7664-93-9)
- Rhode Island RTK
  - Sulfuric acid (CAS 7664-93-9)
- California Proposition 65 - Carcinogens & Reproductive Toxicity
  - Sulfuric acid (CAS 7664-93-9)

### International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>EC Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*"Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### Further information
- **Issue date**: 01/30/2016
- **Revision date**: 09/30/2016
- **Version**: 10
- **List of abbreviations**:
  - LC50: Lethal Concentration, 50%.
  - LD50: Lethal Dose, 50%.
- **References**:
  - IUCLID (2000)
  - RTECS (2006, 2008)

### Disclaimer
This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.
SAFETY DATA SHEET

1. Identification
Product identifier  CircuLex Human DJ-1/PARK7 ELISA Kit Ver.2 Dilution Buffer
Other means of identification
Product code  CY-9050V2
Recommended use  Research use only.
Recommended restrictions  None known.
Manufacturer / Importer / Supplier / Distributor information
Manufacturer and Supplier (Asia)  Medical & Biological Laboratories (MBL) Co., Ltd.
4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number  +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax  +81-52-238-1440
E-mail  sds-support@mbl.co.jp
URL  http://www.mbl.co.jp/e/index.html
Contact person  SDS Support
Supplier  MBL International Corporation
15A Constitution Way, Woburn, MA 01801, USA
Telephone number  +1-800-200-5459, option 3
Fax  +1-781-939-6963
E-mail  tech@mblintl.com
URL  http://www.mblintl.com/
Contact person  Technical Service

2. Hazard(s) identification
Physical hazards  Not classified.
Health hazards  Not classified.
OSHA hazard(s)  Not classified.
Label elements
Hazard symbol  None.
Signal word  None.
Hazard statement  None.
Precautionary statement
Prevention  Observe good industrial hygiene practices.
Response  Wash hands after handling.
Storage  Store away from incompatible materials.
Disposal  Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)  None.
Supplemental information  None.

3. Composition/Information on ingredients
Mixtures
<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide</td>
<td>26628-22-8</td>
<td>&lt; 0.1</td>
</tr>
</tbody>
</table>
Composition comments  All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures
Inhalation  Move to fresh air. Get medical attention if any discomfort continues.
Skin contact  Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.
Eye contact
Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.

Ingestion
Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

Most important symptoms/effects, acute and delayed
Dry skin.

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

General information
Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions
Move containers from fire area if you can do it without risk. Use water spray to cool unopened containers. Prevent entry to sewers and public waters.

General fire hazards
The product is non-combustible.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid inhalation of mist and contact with skin and eyes. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up
Absorb spillage with suitable absorbent material. After removal, flush contaminated area thoroughly with water. For waste disposal, see Section 13 of the SDS.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling
Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities
Keep container tightly closed. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (CAS 26628-22-8)</td>
<td>Ceiling</td>
<td>0.29 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.11 ppm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (CAS 26628-22-8)</td>
<td>Ceiling</td>
<td>0.3 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 ppm</td>
</tr>
</tbody>
</table>

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Provide adequate ventilation. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

<table>
<thead>
<tr>
<th>Eye/face protection</th>
<th>Risk of splashes: Wear safety glasses with side shields.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin protection</td>
<td>Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.</td>
</tr>
<tr>
<td>Hand protection</td>
<td></td>
</tr>
</tbody>
</table>
### 9. Physical and chemical properties

**Appearance**
- **Physical state**: Liquid.
- **Form**: Liquid.
- **Color**: Colorless.
- **Odor**: Odorless.
- **Odor threshold**: Not available.
- **pH**: Neutral.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: Not available.
- **Flash point**: Not available.
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.
- **Upper/lower flammability or explosive limits**
  - **Flammability limit - lower (%)**: Not available.
  - **Flammability limit - upper (%)**: Not available.
- **Vapor pressure**: Not available.

**Odor threshold**
- **Not available.**

**Partition coefficient**
- **(n-octanol/water)**: Not available.
- **Auto-ignition temperature**: Not available.

**Decomposition temperature**: Not available.

**Viscosity**: Not available.

### 10. Stability and reactivity

**Reactivity**
- The product is stable and non reactive under normal conditions of use, storage and handling.

**Chemical stability**
- Stable at normal conditions.

**Possibility of hazardous reactions**
- Sodium azide: Reacts with copper, lead, silver, mercury and carbon disulfide to form particularly shock-sensitive compounds. Reacts with acids, forming toxic and explosive hydrogen azide.

**Conditions to avoid**
- None known.

**Incompatible materials**
- Heavy metals. Acids.

**Hazardous decomposition products**
- None known.

### 11. Toxicological information

**Information on likely routes of exposure**
- **Ingestion**: Large quantities: May cause discomfort if swallowed.
- **Inhalation**: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
- **Skin contact**: Prolonged contact may cause dryness of the skin.
- **Eye contact**: Direct contact with eyes may cause temporary irritation.
- **Symptoms related to the physical, chemical and toxicological characteristics**: Dry skin.
Acute toxicity
Large quantities: May cause discomfort if swallowed.

Skin corrosion/irritation
May cause mild skin irritation.

Serious eye damage/eye irritation
May cause eye irritation.

Respiratory sensitization
Based on available data, the classification criteria are not met.

Skin sensitization
Based on available data, the classification criteria are not met.

Germ cell mutagenicity
No data available.

Carcinogenicity
IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.
NTP Report on Carcinogens
Not listed.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity
No data available.

Specific target organ toxicity
- single exposure
No data available.

Specific target organ toxicity
- repeated exposure
No data available.

Aspiration hazard
Based on available data, the classification criteria are not met.

Chronic effects
Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.

Persistence and degradability
No data available.

Bioaccumulative potential
No data available.

Mobility in soil
No data available.

Mobility in general
The product is water soluble and may spread in water systems.

Other adverse effects
The environmental hazard of the product is considered to be limited.

13. Disposal considerations

Disposal instructions
Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.

Local disposal regulations
Dispose of in accordance with local regulations.

Hazardous waste code
Not regulated.

Waste from residues / unused products
Dispose of in accordance with local regulations.

Contaminated packaging
Dispose of in the same manner as unused product.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information

US federal regulations
This product is not hazardous according to OSHA 29CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
| Hazard categories                      | Immediate Hazard - No  
|                                      | Delayed Hazard - No  
|                                      | Fire Hazard - No  
|                                      | Pressure Hazard - No  
|                                      | Reactivity Hazard - No  |

SARA 302 Extremely hazardous substance  
SARA 311/312 Hazardous chemical  
SARA 313 (TRI reporting)  
Not regulated.

| Other federal regulations                          |  
| Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List | Not regulated.  
| Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) | Not regulated.  
| Safe Drinking Water Act (SDWA) | Not regulated.  
| Food and Drug Administration (FDA) | Not regulated.  

| US state regulations | This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.  
| Massachusetts RTK - Substance List | Not listed.  
| New Jersey Worker and Community Right-to-Know Act | Not listed.  
| Pennsylvania RTK - Hazardous Substances | Not listed.  
| Rhode Island RTK | Not listed.  
| California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) | Not listed.  

| International Inventories |  
| Country(s) or region | Inventory name | On inventory (yes/no)*  
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes  
| Canada | Domestic Substances List (DSL) | Yes  
| Canada | Non-Domestic Substances List (NDSL) | No  
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes  
| Europe | EC Inventory | Yes  
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes  
| Korea | Existing Chemicals List (ECL) | Yes  
| New Zealand | New Zealand Inventory | Yes  
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes  
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes  

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

| Issue date | 01/30/2016  
| Revision date | 09/30/2016  
| Version | 10  
| Further information | Not available.  
| References | Registry of Toxic Effects of Chemical Substances (RTECS)  
|            | HSDB® - Hazardous Substances Data Bank  
| Disclaimer | This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.  

SAFETY DATA SHEET

1. Identification

Product identifier
CircuLex Human DJ-1/PARK7 ELISA Kit Ver.2
10X Wash Buffer

Other means of identification
Product code
CY-9050V2

Recommended use
Research use only.

Recommended restrictions
None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer and Supplier (Asia)
Medical & Biological Laboratories (MBL) Co., Ltd.
4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number
+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax
+81-52-238-1440
E-mail
sds-support@mbl.co.jp
URL
http://www.mbl.co.jp/e/index.html
Contact person
SDS Support

Supplier
MBL International Corporation
15A Constitution Way, Woburn, MA 01801, USA
Telephone number
+1-800-200-5459, option 3
Fax
+1-781-939-6963
E-mail
tech@mblintl.com
URL
http://www.mblintl.com/
Contact person
Technical Service

2. Hazard(s) identification

Physical hazards
Not classified.

Health hazards
Not classified.

OSHA hazard(s)
Not classified.

Label elements

Hazard symbol
None.

Signal word
None.

Hazard statement
None.

Precautionary statement
Prevention
Observe good industrial hygiene practices.
Response
Wash thoroughly after handling.
Storage
None.
Disposal
None.

Hazard(s) not otherwise classified (HNOC)
None.

3. Composition/Information on ingredients

Mixtures
The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures

Inhalation
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact
Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if irritation develops or persists.

Eye contact
Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.
Ingestion
No adverse effects due to ingestion are expected. Get medical attention if any discomfort occurs.

Most important symptoms/effects, acute and delayed
Dry skin.

Indication of immediate medical attention and special treatment needed
Treat symptomatically.

General information
Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media
Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical
None known.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire-fighting equipment/instructions
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
The product is non-combustible.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.

Methods and materials for containment and cleaning up
Absorb spillage with non-combustible, absorbent material. After removal, flush contaminated area thoroughly with water. For waste disposal, see Section 13 of the SDS.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling
Avoid prolonged and repeated contact. Wear appropriate personal protective equipment. For personal protection, see Section 8 of the SDS.

Conditions for safe storage, including any incompatibilities
Keep container closed.

8. Exposure controls/personal protection

Occupational exposure limits
No exposure limits noted for ingredient(s).

Biological limit values
No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls
Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection
If risk of splashing, wear safety goggles or face shield.

Skin protection

Hand protection
Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Other
Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection
No protection is ordinarily required under normal conditions of use.

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance
<table>
<thead>
<tr>
<th>Physical state</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless.</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
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<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>Flammability limit</td>
<td>Not available.</td>
</tr>
<tr>
<td>- lower (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability limit</td>
<td>Not available.</td>
</tr>
<tr>
<td>- upper (%)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

Reactivity  The product is stable and non reactive under normal conditions of use, storage and chemical stability  Stable at normal conditions.
Possibility of hazardous reactions  None known.
Conditions to avoid  None known.
Incompatible materials  None known.
Hazardous decomposition products  No hazard in normal industrial use.

11. Toxicological information

Information on likely routes of exposure

**Ingestion**  Large quantities: May cause discomfort if swallowed.
**Inhalation**  Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
**Skin contact**  Prolonged contact may cause dryness of the skin.
**Eye contact**  Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

**Acute toxicity**  Large quantities: May cause discomfort if swallowed.
**Skin corrosion/irritation**  Prolonged contact may cause dryness of the skin.
**Serious eye damage/eye irritation**  Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

**Respiratory sensitization**  No data available.
**Skin sensitization**  Not a skin sensitizer.
**Germ cell mutagenicity**  No data available.
**Carcinogenicity**  No data available.
**Reproductive toxicity**  No data available.
Specific target organ toxicity - single exposure
No data available.
Specific target organ toxicity - repeated exposure
No data available.
Aspiration hazard
No data available.

12. Ecological information
Ecotoxicity
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.

Persistence and degradability
No data available.
Bioaccumulative potential
No data available.
Mobility in soil
No data available.
Mobility in general
The product is water soluble and may spread in water systems.
Other adverse effects
No data available.

13. Disposal considerations
Disposal instructions
Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations
Dispose of in accordance with local regulations.
Hazardous waste code
Not regulated.
Waste from residues / unused products
Dispose of in accordance with local regulations.
Contaminated packaging
Dispose of in same manner as unused product.

14. Transport information
DOT
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information
US federal regulations
This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.
Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance
No
SARA 311/312 Hazardous chemical
No
SARA 313 (TRI reporting)
Not regulated.
Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated.
Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Not listed.
Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.
**DEA Exempt Chemical Mixtures Code Number**  
Not regulated.

**Food and Drug Administration (FDA)**  
Not regulated.

**US state regulations**  
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

| Massachusetts RTK - Substance List | Not regulated. |
| New Jersey Worker and Community Right-to-Know Act | Not regulated. |
| Pennsylvania RTK - Hazardous Substances | Not regulated. |
| Rhode Island RTK | Not regulated. |
| California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) | Not listed. |

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>EC Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).*

### 16. Other information

<table>
<thead>
<tr>
<th>Issue date</th>
<th>01/30/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>09/30/2016</td>
</tr>
<tr>
<td>Version</td>
<td>10</td>
</tr>
<tr>
<td>Further information</td>
<td>Not available.</td>
</tr>
<tr>
<td>Disclaimer</td>
<td>This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

1. Identification

Product identifier
CircuLex Human DJ-1/PARK7 ELISA Kit Ver.2
Human DJ-1/PARK7 Standard

Other means of identification
Product code CY-9050V2
Recommended use Research use only.
Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information
Manufacturer and Supplier (Asia)
Medical & Biological Laboratories (MBL) Co., Ltd.
4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax +81-52-238-1440
E-mail sds-support@mbl.co.jp
URL http://www.mbl.co.jp/e/index.html
Contact person SDS Support

Manufacturer and Supplier
Medical & Biological Laboratories (MBL) Co., Ltd.
15A Constitution Way, Woburn, MA 01801, USA
Telephone number +1-800-200-5459, option 3
Fax +1-781-939-6963
E-mail tech@mblintl.com
URL http://www.mblintl.com/
Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements
Hazard symbol None.
Signal word None.
Hazard statement None.

Precautionary statement
Prevention Observe good industrial hygiene practices.
Response Wash thoroughly after handling.
Storage None.
Disposal None.
Hazard(s) not otherwise classified (HNOC) None.

3. Composition/Information on ingredients

Mixtures
The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures

Inhalation Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.

Skin contact Wash contact areas with soap and water. Get medical attention if irritation develops or persists.

Eye contact Do not rub eye. Rinse the eye with water immediately. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.
Most important symptoms/effects, acute and delayed
Indication of immediate medical attention and special treatment needed
General information

Dry skin.
Treat symptomatically.
Get medical attention if any discomfort develops.

5. Fire-fighting measures

| Suitable extinguishing media | Use fire-extinguishing media appropriate for surrounding materials. |
| Unsuitable extinguishing media | None known. |
| Specific hazards arising from the chemical | None known. |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. |
| Fire-fighting equipment/instructions | Use standard firefighting procedures and consider the hazards of other involved materials. |

6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal, flush contaminated area thoroughly with water. Never return spills to original containers for re-use. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. |

7. Handling and storage

| Precautions for safe handling | Avoid prolonged and repeated contact. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Keep container closed. |

8. Exposure controls/personal protection

| Occupational exposure limits | No exposure limits noted for ingredient(s). |
| Biological limit values | No biological exposure limits noted for the ingredient(s). |
| Appropriate engineering controls | Provide adequate ventilation. Minimize dust generation and accumulation. Provide easy access to water supply and eye wash facilities. |
| Individual protection measures, such as personal protective equipment | If risk of splashing, wear safety goggles or face shield. |
| Eye/face protection | Wear protective gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier. |
| Skin protection | Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| Hand protection | No protection is ordinarily required under normal conditions of use. |
| Other | Wear appropriate thermal protective clothing, when necessary. |
| Respiratory protection | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

9. Physical and chemical properties

| Appearance | Physical state, Form |
| | Solid, Powder. |
**10. Stability and reactivity**

**Reactivity**

The product is stable and non reactive under normal conditions of use, storage and chemical stability. Stable at normal conditions.

**Possibility of hazardous reactions**

None known.

**Conditions to avoid**

None known.

**Incompatible materials**

None known.

**Hazardous decomposition products**

No hazard in normal industrial use.

**11. Toxicological information**

**Information on likely routes of exposure**

- **Ingestion**
  
  Large quantities: May cause discomfort if swallowed.

- **Inhalation**
  
  Dust may irritate respiratory system.

- **Skin contact**
  
  Prolonged contact may cause dryness of the skin.

- **Eye contact**
  
  Direct contact with eyes may cause temporary irritation.
  
  Dry skin.

**Symptoms related to the physical, chemical and toxicological characteristics**

Large quantities: May cause discomfort if swallowed.

**Information on toxicological effects**

- **Acute toxicity**
  
  Large quantities: May cause discomfort if swallowed.

- **Skin corrosion/irritation**
  
  Prolonged contact may cause dryness of the skin.

- **Serious eye damage/eye irritation**
  
  Direct contact with eyes may cause temporary irritation.

- **Respiratory sensitization**
  
  No data available.

- **Skin sensitization**
  
  Not a skin sensitizer.

- **Germ cell mutagenicity**
  
  No data available.

- **Carcinogenicity**
  
  No data available.

- **Reproductive toxicity**
  
  No data available.

- **Specific target organ toxicity**
  
  No data available.

- **- single exposure**
  
  No data available.
### 12. Ecological information

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific target organ toxicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>- repeated exposure</td>
<td></td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>No data available.</td>
</tr>
<tr>
<td>Ecotoxicity</td>
<td>The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>No data available.</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No data available.</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>No data available.</td>
</tr>
<tr>
<td>Mobility in general</td>
<td>The product is water soluble and may spread in water systems.</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

### 13. Disposal considerations

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal instructions</td>
<td>Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.</td>
</tr>
<tr>
<td>Local disposal regulations</td>
<td>Dispose of in accordance with local regulations.</td>
</tr>
<tr>
<td>Hazardous waste code</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Waste from residues / unused products</td>
<td>Dispose of in accordance with local regulations.</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Dispose of in same manner as unused product.</td>
</tr>
</tbody>
</table>

### 14. Transport information

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Not regulated as dangerous goods.</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated as dangerous goods.</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated as dangerous goods.</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### 15. Regulatory information

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>US federal regulations</td>
<td>This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.</td>
</tr>
<tr>
<td>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>CERCLA Hazardous Substance List (40 CFR 302.4)</td>
<td>Not listed.</td>
</tr>
<tr>
<td>Superfund Amendments and Reauthorization Act of 1986 (SARA)</td>
<td>Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No</td>
</tr>
<tr>
<td>Hazard categories</td>
<td></td>
</tr>
<tr>
<td>SARA 302 Extremely hazardous substance</td>
<td>No</td>
</tr>
<tr>
<td>SARA 311/312 Hazardous chemical</td>
<td>No</td>
</tr>
<tr>
<td>SARA 313 (TRI reporting)</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Other federal regulations</td>
<td></td>
</tr>
<tr>
<td>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Safe Drinking Water Act (SDWA)</td>
<td></td>
</tr>
<tr>
<td>Drug Enforcement Administration (DEA), List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Drug Enforcement Administration (DEA), List 1 &amp; 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>DEA Exempt Chemical Mixtures Code Number</td>
<td>Not regulated.</td>
</tr>
<tr>
<td>Food and Drug Administration (FDA)</td>
<td>Not regulated.</td>
</tr>
</tbody>
</table>
US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Massachusetts RTK - Substance List
New Jersey Worker and Community Right-to-Know Act
Pennsylvania RTK - Hazardous Substances
Rhode Island RTK
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)

Not regulated.
Not regulated.
Not regulated.
Not listed.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>EC Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 01/30/2016
Revision date 09/30/2016
Version 10
Further information Not available.
Disclaimer This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.
SAFETY DATA SHEET

1. Identification

Product identifier: CircuLex Human DJ-1/PARK7 ELISA Kit Ver.2

Other means of identification:
- Product code: CY-9050V2
- Recommended use: Research use only.
- Recommended restrictions: None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer and Supplier
Medical & Biological Laboratories (MBL) Co., Ltd.
4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number: +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax: +81-52-238-1440
E-mail: sds-support@mbl.co.jp
URL: http://www.mbl.co.jp/e/index.html
Contact person: SDS Support

Supplier
MBL International Corporation
15A Constitution Way, Woburn, MA 01801, USA
Telephone number: +1-800-200-5459, option 3
Fax: +1-781-939-6963
E-mail: tech@mblintl.com
URL: http://www.mblintl.com/
Contact person: Technical Service

2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards: Not classified.
OSHA hazard(s): Not classified.

Label elements
- Hazard symbol: None.
- Signal word: None.
- Hazard statement: None.
- Precautionary statement:
  - Prevention: Observe good industrial hygiene practices.
  - Response: Wash thoroughly after handling.
  - Storage: None.
  - Disposal: None.
- Hazard(s) not otherwise classified (HNOC): None.

3. Composition/Information on ingredients

Mixtures
The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

4. First-aid measures

Inhalation: Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.
Skin contact: Wash contact areas with soap and water. Get medical attention if irritation develops or persists.
Eye contact: Do not rub eye. Rinse the eye with water immediately. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention if irritation develops and persists.
Ingestion: Rinse mouth thoroughly if dust is ingested. Get medical attention if any discomfort continues.
Most important symptoms/effects, acute and delayed
Indication of immediate medical attention and special treatment needed
General information

<table>
<thead>
<tr>
<th>Most important symptoms/effects</th>
<th>Dry skin.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indication of immediate medical attention and special treatment needed</td>
<td>Treat symptomatically.</td>
</tr>
<tr>
<td>General information</td>
<td>Get medical attention if any discomfort develops.</td>
</tr>
</tbody>
</table>

**5. Fire-fighting measures**

**Suitable extinguishing media**
Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media**
None known.

**Specific hazards arising from the chemical**
None known.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Fire-fighting equipment/instructions**
Use standard firefighting procedures and consider the hazards of other involved materials.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**
Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see Section 8 of the SDS.

**Methods and materials for containment and cleaning up**
Sweep up or vacuum up spillage and collect in suitable container for disposal. After removal, flush contaminated area thoroughly with water. Never return spills to original containers for re-use.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so.

**7. Handling and storage**

**Precautions for safe handling**
Avoid prolonged and repeated contact. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**
Keep container closed.

**8. Exposure controls/personal protection**

**Occupational exposure limits**
No exposure limits noted for ingredient(s).

**Biological limit values**
No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**
Provide adequate ventilation.

**Individual protection measures, such as personal protective equipment**

<table>
<thead>
<tr>
<th>Eye/face protection</th>
<th>If risk of splashing, wear safety goggles or face shield.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin protection</td>
<td></td>
</tr>
<tr>
<td>Hand protection</td>
<td>Wear protective gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.</td>
</tr>
<tr>
<td>Other</td>
<td>Wear protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>No protection is ordinarily required under normal conditions of use.</td>
</tr>
<tr>
<td>Thermal hazards</td>
<td>Wear appropriate thermal protective clothing, when necessary.</td>
</tr>
<tr>
<td>General hygiene considerations</td>
<td>Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.</td>
</tr>
</tbody>
</table>

**9. Physical and chemical properties**

**Appearance**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Solid.</td>
</tr>
<tr>
<td>Property</td>
<td>Value</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td></td>
</tr>
<tr>
<td>- Flammability limit - lower (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>- Flammability limit - upper (%)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>10. Stability and reactivity</td>
<td></td>
</tr>
<tr>
<td>Reactivity</td>
<td>The product is stable and non reactive under normal conditions of use, storage and</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>Stable at normal conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>None known</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>None known</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>None known</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>No hazard in normal industrial use.</td>
</tr>
<tr>
<td>11. Toxicological information</td>
<td></td>
</tr>
<tr>
<td>Information on likely routes of exposure</td>
<td></td>
</tr>
<tr>
<td>Ingestion</td>
<td>Large quantities: May cause discomfort if swallowed.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Under normal conditions of intended use, this material is not expected to be an inhalation</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Prolonged contact may cause dryness of the skin.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
<tr>
<td>Symptoms related to the physical, chemical and toxicological characteristics</td>
<td>Dry skin.</td>
</tr>
<tr>
<td>Information on toxicological effects</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity</td>
<td>Large quantities: May cause discomfort if swallowed.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Prolonged contact may cause dryness of the skin.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>No data available.</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Not a skin sensitizer.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>No data available.</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>No data available.</td>
</tr>
</tbody>
</table>
Specific target organ toxicity - repeated exposure
Aspiration hazard
No data available.

12. Ecological information

Ecotoxicity
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills have a harmful or damaging effect on the environment.

Persistence and degradability
No data available.
Biaccumulative potential
No data available.
Mobility in soil
No data available.
Mobility in general
The product is water soluble and may spread in water systems.
Other adverse effects
No data available.

13. Disposal considerations

Disposal instructions
Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.
Local disposal regulations
Dispose of in accordance with local regulations.
Hazardous waste code
Not regulated.
Waste from residues / unused products
Dispose of in accordance with local regulations.
Contaminated packaging
Dispose of in same manner as unused product.

14. Transport information

DOT
Not regulated as dangerous goods.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information

US federal regulations
This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No
SARA 302 Extremely hazardous substance
No
SARA 311/312 Hazardous chemical
No
SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated.
Drug Enforcement Administration (DEA), List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
Not regulated.
Drug Enforcement Administration (DEA), List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.
DEA Exempt Chemical Mixtures Code Number
Not regulated.
Food and Drug Administration (FDA)
Not regulated.
**US state regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

- **Massachusetts RTK - Substance List**
  - Not regulated.
- **New Jersey Worker and Community Right-to-Know Act**
  - Not regulated.
- **Pennsylvania RTK - Hazardous Substances**
  - Not regulated.
- **Rhode Island RTK**
  - Not regulated.
- **California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT)**
  - Not listed.

**International Inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>EC Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).*

16. **Other information**

- **Issue date**: 01/30/2016
- **Revision date**: 09/30/2016
- **Version**: 10
- **Further information**: Not available.
- **Disclaimer**: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.
SAFETY DATA SHEET

1. Identification

Product identifier CircuLex Human DJ-1/PARK7 ELISA Kit Ver.2
20X HRP conjugated Detection Antibody, Conjugate Dilution Buffer

Other means of identification

Product code CY-9050V2
Recommended use Research use only.
Recommended restrictions None known.

Manufacturer / Importer / Supplier / Distributor information

Manufacturer and Supplier Medical & Biological Laboratories (MBL) Co., Ltd.
Supplier (Asia) 4-5-3 Sakae, Naka-ku, Nagoya, Aichi 460-0008, Japan
Telephone number +81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)
Fax +81-52-238-1440
E-mail sds-support@mbl.co.jp
URL http://www.mbl.co.jp/e/index.html
Contact person SDS Support

Manufacturer and Supplier (USA)
Supplier MBL International Corporation
15A Constitution Way, Woburn, MA 01801, USA
Telephone number +1-800-200-5459, option 3
Fax +1-781-939-6963
E-mail tech@mblintl.com
URL http://www.mblintl.com/
Contact person Technical Service

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
OSHA hazard(s) Not classified.

Label elements

Hazard symbol None.
Signal word None.
Hazard statement None.

Precautionary statement

Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage None.
Disposal None.

Hazard(s) not otherwise classified (HNOC) None.

3. Composition/Information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one</td>
<td>55965-84-9</td>
<td>&lt; 0.1</td>
</tr>
</tbody>
</table>

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<table>
<thead>
<tr>
<th>Section</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Skin contact</strong></td>
<td>Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if irritation develops or persists.</td>
</tr>
<tr>
<td><strong>Eye contact</strong></td>
<td>Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Drink plenty of water. Get medical attention if any discomfort occurs. Dry skin.</td>
</tr>
<tr>
<td><strong>Most important symptoms/effects, acute and delayed</strong></td>
<td>Treat symptomatically.</td>
</tr>
<tr>
<td><strong>Indication of immediate medical attention and special treatment needed</strong></td>
<td></td>
</tr>
<tr>
<td><strong>General information</strong></td>
<td>Get medical attention if any discomfort develops.</td>
</tr>
</tbody>
</table>

### 5. Fire-fighting measures

| **Suitable extinguishing media** | Use fire-extinguishing media appropriate for surrounding materials. |
| **Unsuitable extinguishing media** | None known. |
| **Specific hazards arising from the chemical** | None known. |
| **Special protective equipment and precautions for firefighters** | Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire. |
| **Fire-fighting equipment/instructions** | Move containers from fire area if you can do that without risk. Use water spray to cool unopened containers. Prevent entry to sewers and public waters. |

### 6. Accidental release measures

| **Personal precautions, protective equipment and emergency procedures** | Avoid contact with eyes and prolonged skin contact. For personal protection, see Section 8 of the SDS. |
| **Methods and materials for containment and cleaning up** | Absorb spillage with suitable absorbent material. Flush contaminated area thoroughly with water, following removal of the spillage. For waste disposal, see Section 13 of the SDS. Prevent further leakage or spillage if safe to do so. |
| **Environmental precautions** | |

### 7. Handling and storage

| **Precautions for safe handling** | Avoid contact with eyes and prolonged skin contact. Wash hands after handling. Observe good industrial hygiene practices. |
| **Conditions for safe storage, including any incompatibilities** | Keep container tightly closed. |

### 8. Exposure controls/personal protection

| **Occupational exposure limits** | No exposure limits noted for ingredient(s). |
| **Biological limit values** | No biological exposure limits noted for the ingredient(s). |
| **Appropriate engineering controls** | Ensure adequate ventilation is available, especially in confined areas. |
| **Individual protection measures, such as personal protective equipment** | **Eye/face protection** Risk of splashes: Wear safety glasses with side shields. |
| **Skin protection** | **Hand protection** Risk of contact: Wear protective gloves. Suitable gloves can be recommended by the glove supplier. |
| **Other** | Wear appropriate clothing to prevent repeated or prolonged skin contact. |
| **Respiratory protection** | Where excessive vapor, mist or dust may result, use NIOSH approved respiratory protection equipment. |
| **Thermal hazards** | Wear appropriate thermal protective clothing, when necessary. |
| **General hygiene considerations** | Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Routinely wash work clothing and protective equipment to remove contaminants. |

### 9. Physical and chemical properties
Appearance

Physical state: Liquid.
Form: Liquid.
Color: Pale blue.

Odor: Odorless.
Odor threshold: Not available.
pH: Neutral.
Melting point/freezing point: Not available.
Initial boiling point and boiling range: Not available.
Flash point: Not available.
Evaporation rate: Not available.
Flash point: Not available.
Flammability (solid, gas): Not applicable.

Upper/lower flammability or explosive limits

- Flammability limit: Not available.
  - lower (%): Not available.
  - upper (%): Not available.

Vapor pressure: Not available.
Vapor density: Not available.
Relative density: Not available.
Solubility(ies): Soluble in water.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.

10. Stability and reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability: Stable at normal conditions.
Possibility of hazardous reactions: Hazardous polymerization does not occur. Hazardous reactions do not occur.
Conditions to avoid: None known.
Incompatible materials: None known.
Hazardous decomposition products: None known.

11. Toxicological information

Information on likely routes of exposure

Ingestion: Large quantities: May cause discomfort if swallowed.
Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact: Prolonged contact may cause dryness of the skin.
Eye contact: Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Dry skin.

Information on toxicological effects

Acute toxicity: Large quantities: May cause discomfort if swallowed.
Skin corrosion/irritation: May cause mild skin irritation.
Serious eye damage/eye injury: May cause eye irritation.
Respiratory sensitization: No data available.
Skin sensitization: No data available.
Germ cell mutagenicity: No data available.
Carcinogenicity: No data available.
Reproductive toxicity: No data available.
Specific target organ toxicity  
- single exposure  
No data available.

Specific target organ toxicity  
- repeated exposure  
No data available.

Aspiration hazard  
No data available.

### 12. Ecological information

**Ecotoxicity**  
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills may have a harmful or damaging effect on the environment.

**Persistence and degradability**  
No data available.

**Bioaccumulative potential**  
No data available.

**Mobility in soil**  
Expected to be highly mobile in soil.

**Mobility in general**  
The product is water soluble and may spread in water systems.

**Other adverse effects**  
No data available.

### 13. Disposal considerations

**Disposal instructions**  
Dispose of in accordance with all applicable regulations. Do not discharge into drains, water systems or soil.

**Local disposal regulations**  
Dispose of in accordance with local regulations.

**Hazardous waste code**  
Not regulated.

**Waste from residues / unused products**  
Dispose of in accordance with local regulations.

**Contaminated packaging**  
Dispose of in the same manner as unused product.

### 14. Transport information

**DOT**  
Not regulated as dangerous goods.

**IATA**  
Not regulated as dangerous goods.

**IMDG**  
Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable.

### 15. Regulatory information

**US federal regulations**  
This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not regulated.

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

- Immediate Hazard - No
- Delayed Hazard - No
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

- SARA 302 Extremely hazardous substance: No
- SARA 311/312 Hazardous chemical: No
- SARA 313 (TRI reporting): Not regulated.

**Other federal regulations**

- Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.
- Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not regulated.
- Food and Drug Administration (FDA): Not regulated.

**US state regulations**

- This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

- Massachusetts RTK - Substance List: Not regulated.
- New Jersey Worker and Community Right-to-Know Act: Not regulated.
Pennsylvania RTK - Hazardous Substances 
Rhode Island RTK 
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) 

**International inventories**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
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<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>EC Inventory</td>
<td>No</td>
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<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
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<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
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<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
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<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
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*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).*

**16. Other information**

<table>
<thead>
<tr>
<th>Issue date</th>
<th>01/30/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision date</td>
<td>09/30/2016</td>
</tr>
<tr>
<td>Version</td>
<td>10</td>
</tr>
<tr>
<td>Further information</td>
<td>Not available.</td>
</tr>
<tr>
<td>References</td>
<td>HSDB® - Hazardous Substances Data Bank</td>
</tr>
<tr>
<td></td>
<td>Registry of Toxic Effects of Chemical Substances (RTECS)</td>
</tr>
<tr>
<td></td>
<td>C&amp;L Inventory database</td>
</tr>
<tr>
<td>Disclaimer</td>
<td>This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.</td>
</tr>
</tbody>
</table>
# SAFETY DATA SHEET

## 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>CircuLex Human DJ-1/PARK7 ELISA Kit Ver.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td></td>
</tr>
<tr>
<td>Product code</td>
<td>CY-9050V2</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Research use only.</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>None known.</td>
</tr>
</tbody>
</table>

### Manufacturer / Importer / Supplier / Distributor information

<table>
<thead>
<tr>
<th>Manufacturer and Supplier (Asia)</th>
<th>Medical &amp; Biological Laboratories (MBL) Co., Ltd.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone number</td>
<td>+81-52-238-1901 (Monday to Friday, 9 AM to 5 PM JST)</td>
</tr>
<tr>
<td>Fax</td>
<td>+81-52-238-1440</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:sds-support@mbl.co.jp">sds-support@mbl.co.jp</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.mbl.co.jp/e/index.html">http://www.mbl.co.jp/e/index.html</a></td>
</tr>
<tr>
<td>Contact person</td>
<td>SDS Support</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supplier</th>
<th>MBL International Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone number</td>
<td>+1-800-200-5459, option 3</td>
</tr>
<tr>
<td>Fax</td>
<td>+1-781-939-6963</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:tech@mblintl.com">tech@mblintl.com</a></td>
</tr>
<tr>
<td>URL</td>
<td><a href="http://www.mblintl.com/">http://www.mblintl.com/</a></td>
</tr>
<tr>
<td>Contact person</td>
<td>Technical Service</td>
</tr>
</tbody>
</table>

## 2. Hazard(s) Identification

| Physical hazards | Not classified. |
| Health hazards | Not classified. |
| OSHA hazard(s) | Not classified. |

### Label elements

- Hazard symbol: None.
- Signal word: None.
- Hazard statement: None.

### Precautionary statement

- **Prevention**: Observe good industrial hygiene practices.
- **Response**: Wash hands after handling.
- **Storage**: Store away from incompatible materials.
- **Disposal**: Dispose of waste and residues in accordance with local authority requirements.

### Hazard(s) not otherwise classified (HNOC)

None.

## 3. Composition/Information on ingredients

### Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide</td>
<td>7722-84-1</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>3,3’,5,5’-Tetramethylbenzidine</td>
<td>54827-17-7</td>
<td>≤ 0.05</td>
</tr>
</tbody>
</table>

### Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## 4. First-aid measures

### Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
Skin contact: Remove contaminated clothing. Dry skin with paper towel or similar. Get medical attention if irritation develops or persists.

Eye contact: Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops or persists.

Ingestion: Drink plenty of water. Get medical attention if any discomfort occurs.

Most important symptoms/effects, acute and delayed: May cause temporary irritation on skin or eye contact.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

General information: Get medical attention if any discomfort develops.

5. Fire-fighting measures

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: None known.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing should be worn when fighting chemical fires. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Fire-fighting equipment/instructions: Move containers from fire area if you can do that without risk. Use water spray to cool unopened containers. Prevent entry to sewers and public waters.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid prolonged and repeated contact. Wear suitable protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: Absorb spillage with suitable absorbent material. After removal, flush contaminated area thoroughly with water.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes and prolonged skin contact. Wear appropriate personal protective equipment (See Section 8). Wash hands after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (CAS 7722-84-1)</td>
<td>PEL</td>
<td>1.4 mg/m3 1 ppm</td>
</tr>
</tbody>
</table>

US ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (CAS 7722-84-1)</td>
<td>TWA</td>
<td>1 ppm</td>
</tr>
</tbody>
</table>

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (CAS 7722-84-1)</td>
<td>TWA</td>
<td>1.4 mg/m3 1 ppm</td>
</tr>
</tbody>
</table>

Biological limit values: No biological exposure limits noted for the ingredient(s).

Exposure guidelines: No exposure standards allocated.
Appropriate engineering controls

Individual protection measures, such as personal protective equipment

<table>
<thead>
<tr>
<th>Protection Type</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/face protection</td>
<td>Provide adequate ventilation.</td>
</tr>
<tr>
<td>Skin protection</td>
<td>Risk of splashes: Wear safety glasses with side shields.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Wear protective gloves. Be aware that the liquid may penetrate the gloves.</td>
</tr>
<tr>
<td>Other</td>
<td>Frequent change is advisable. Suitable gloves can be recommended by the</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>glove supplier.</td>
</tr>
<tr>
<td>Thermal hazards</td>
<td>Wear appropriate thermal protective clothing, when necessary.</td>
</tr>
<tr>
<td>General hygiene considerations</td>
<td>Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.</td>
</tr>
</tbody>
</table>

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Form</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>Pale amber.</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability limit - lower (%)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>Not available.</td>
</tr>
<tr>
<td>(n-octanol/water)</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>The product is non-reactive under normal conditions of use, storage and transport.</td>
</tr>
<tr>
<td>Chemical stability</td>
<td>Stable under the prescribed storage conditions.</td>
</tr>
<tr>
<td>Possibility of hazardous reactions</td>
<td>None known.</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Contact with incompatible materials. Elevated temperatures.</td>
</tr>
<tr>
<td>Incompatible materials</td>
<td>Strong oxidizing agents.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>No hazardous decomposition products are known.</td>
</tr>
</tbody>
</table>

11. Toxicological information

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ingestion</td>
<td>May cause discomfort if swallowed.</td>
</tr>
</tbody>
</table>
10. Handling and exposure controls

Inhalation
Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact
Prolonged contact may cause dryness of the skin.

Eye contact
May cause eye irritation on direct contact.

Symptoms related to the physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity
May cause discomfort if swallowed.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (CAS 7722-84-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>LD50</td>
<td>Rat</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
<td>Rat</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Prolonged contact may cause dryness of the skin.

Serious eye damage/eye irritation
May cause eye irritation on direct contact.

Respiratory sensitization
No data available.

Skin sensitization
No data available.

Germ cell mutagenicity
No data available.

Carcinogenicity
No data available.

Reproductive toxicity
No data available.

Specific target organ toxicity
- single exposure
No data available.

Specific target organ toxicity
- repeated exposure
No data available.

Aspiration hazard
No data available.

12. Ecological information

Ecotoxicity

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide (CAS 7722-84-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>EC50</td>
<td>Nitzschia</td>
</tr>
</tbody>
</table>

Persistence and degradability
The product is biodegradable.

Bioaccumulative potential
The product is not bioaccumulating.

Mobility in soil
Expected to be highly mobile in soil.

Mobility in general
The product is water soluble and may spread in water systems.

Other adverse effects
The environmental hazard of the product is considered to be limited.

13. Disposal considerations

Disposal instructions
Dispose of in accordance with all applicable regulations. Do not discharge into drains, water courses or onto the ground.

Local disposal regulations
Dispose of in accordance with local regulations.

Hazardous waste code
Not regulated.

Waste from residues / unused products
Dispose of in accordance with local regulations.

Contaminated packaging
Dispose of in same manner as unused product.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.
15. Regulatory information

US federal regulations
This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
No
SARA 311/312 Hazardous chemical
No
SARA 313 (TRI reporting)
Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA) Not regulated.

US state regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

Massachusetts RTK - Substance List Not regulated.
New Jersey Worker and Community Right-to-Know Act Not regulated.
Pennsylvania RTK - Hazardous Substances Not regulated.
Rhode Island RTK Not regulated.
California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT) Not listed.

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16. Other information

Issue date 01/30/2016
Revision date 09/30/2016
Version 10
List of abbreviations
EC50: Effective Concentration, 50%.
LD50: Lethal Dose, 50%.

Further information
Not available.

References
HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)
IARC Monographs. Overall Evaluation of Carcinogenicity
Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.