1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name: p24 lenti titer ELISA Kit
Product Number: TR30038 and TR30038P5
Brand: OriGene Technologies, Inc.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Quantity testing kit
Uses advised against: None

1.3 Details of the supplier of the safety data sheet

Company: OriGene Technologies, Inc.
9620 Medical Center Drive, Suite 200
Rockville, MD 20850 USA
Telephone: +1 301.340.3188
Fax: +1 301.340.8606

1.4 Emergency telephone number

Emergency Phone #: + 240.620.0267

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Most components, solutions of non-reactive inorganic salts with no GAS classification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin corrosion/irritation Category 1B H314
Serious eye damage/eye irritation Category 1 H318

2.2 GHS Label elements, including precautionary statements

Signal word (GHS-US): Danger

Hazard statements (GHS-US): H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US): P260 - Do not breathe mist, vapors, spray
P264 - Wash exposed skin thoroughly after handling
P280 - Wear protective gloves, eye protection, protective clothing, face protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center or doctor/physician
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations

If inhaled: Remove person to fresh air and keep comfortable for breathing

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None

1. **COMPOSITION/INFORMATION ON INGREDIENTS**

2. **FIRST AID MEASURES**

2.1 **Description of first aid measures**

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**
Wash off with soap and plenty of water.

**In case of eye contact**
Flush eyes with water as a precaution.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water.

2.2 **Most important symptoms and effects, both acute and delayed**
The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

2.3 **Indication of any immediate medical attention and special treatment needed**
No data available

3. **FIREFIGHTING MEASURES**

3.1 **Extinguishing media**
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

3.2 **Special hazards arising from the substance or mixture**
Nature of decomposition products not known.

3.3 **Advice for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.
3.4 **Further information**
No data available

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4. **ACCIDENTAL RELEASE MEASURES**

4.1 **Personal precautions, protective equipment and emergency procedures**
Avoid breathing vapors, mist or gas. For personal protection see section 8.

4.2 **Environmental precautions**
No special environmental precautions required.

4.3 **Methods and materials for containment and cleaning up**
Keep in suitable, closed containers for disposal.

4.4 **Reference to other sections**
For disposal see section 13.

---

5. **HANDLING AND STORAGE**

5.1 **Precautions for safe handling**
For precautions see section 2.2.

5.2 **Conditions for safe storage, including any incompatibilities**
Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Liquids

5.3 **Specific end use(s)**
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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6. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

6.1 **Control parameters**

**Components with workplace control parameters**
Contains no substances with occupational exposure limit values.

6.2 **Exposure controls**

**Appropriate engineering controls**
General industrial hygiene practice.

**Personal protective equipment**

**Eye/face protection**
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Body Protection**
Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**
No special environmental precautions required.

---

7. **PHYSICAL AND CHEMICAL PROPERTIES**

7.1 **Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Form: aqueous solution</th>
</tr>
</thead>
</table>

OriGene Technologies
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
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</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>1</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>0 Centigrade</td>
</tr>
<tr>
<td>Initial boiling point &amp; range</td>
<td>100 Centigrade</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid/gas)</td>
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</tr>
<tr>
<td>Upper/lower Flammability limits</td>
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</tr>
<tr>
<td>Vapor pressure</td>
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</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Partition coefficient (octanol/water)</td>
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</tr>
<tr>
<td>Auto-ignition temperature</td>
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</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
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</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>
7.2 Other safety information
No data available

8. STABILITY AND REACTIVITY

8.1 Reactivity
Thermal decomposition generates: Corrosive vapors.

8.2 Chemical stability
Stable under recommended storage conditions.

8.3 Possibility of hazardous reactions
Reacts violently with (some) bases: release of heat

8.4 Conditions to avoid
Direct sunlight. Extremely high or low temperatures

8.5 Incompatible materials
Metals, cyanides, strong bases

8.6 Hazardous decomposition products
Other decomposition products – Hydrogen Chloride, thermal decomposition generates: Corrosive vapors

9. TOXICOLOGICAL INFORMATION

9.1 Information on toxicological effects

Acute toxicity

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid, 37% w/w</td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>700 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>5010 mg/kg</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>700.000 mg/kg body weight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>5010.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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

Additional Information
RTECS: Not available
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

10. ECOLOGICAL INFORMATION

10.1 Toxicity
No data available

10.2 Persistence and degradability
No data available

10.3 Bioaccumulative potential
No data available

10.4 Mobility in soil
No data available

10.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

10.6 Other adverse effects
No data available

11. DISPOSAL CONSIDERATIONS

11.1 Waste treatment
methods Product
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

12. TRANSPORT INFORMATION

DOT (US)
UN number: 1789
Class: 8
Packing group: II
Proper shipping name: Hydrochloric Acid
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG
Proper Shipping Name: Hydrochloric Acid
Hazard Class: 8
EMS-No: F-A, S-B
Packing Group: II
UN: 1789

IATA
Proper Shipping Name: Hydrochloric Acid
Hazard Class: 8
13. REGULATORY INFORMATION

**SARA 302 Components**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**
This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
No SARA Hazards

**Massachusetts Right To Know Components**
No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know Components**
Water  CAS-No. 7732-18-5
Hydrochloric Acid - 7647-01-0

**New Jersey Right To Know Components**
Water  CAS-No. 7732-18-5
Hydrochloric Acid: 7647-01-0

**California Prop. 65 Components**
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

14. OTHER

**INFORMATION**

**HMIS Rating**
Health hazard: 0
Chronic Health Hazard: 0
Flammability: 0
Physical Hazard 0

**NFPA Rating**
Health hazard: 0
Fire Hazard: 0
Reactivity Hazard: 0

**Further information**
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**Preparation Information**
OriGene Technologies, Inc
Safety Office