Section 1 - Product and Company Information

Product Name: Mouse TLR1-9 Agonist Kit
Cat. Code: trlr-kit1mw

InvivoGen USA, 3950 Sorrento Valley Blvd, Suite 100
San Diego, California 92121, USA
(+1) 888 457 5873

InvivoGen Europe, 5 rue Jean Rodier
31400 Toulouse, France
+33 (0) 5 62 71 69 39

InvivoGen Hong Kong, Unit 709A, Bio-Informatics Center
2 Science Park West Avenue, Hong Kong Science Park
Shatin, Hong Kong
+852 3622 3480

Emergency Number: ORFILA (INRS): +33 (0)1 45 42 59 59

Disclaimer: All InvivoGen products are supplied for research and laboratory use only. Not for drug, household or other uses.

Section 2 – Hazards Identification

This is a summary SDS for a kit, for the full SDS for each of the components please visit our website.

2.1 Classification of substance
Eye irritation (Category 2A)

2.2 GHS Label elements, including precautionary statements
Pictogram

Signal word Warning

Hazard statement
H319 Causes serious eye irritation.

Precautionary statements
P305 + P351 + P338 IF IN EYES: Rinse continuosly with water for several minutes. Remove contact lens if present and easy to do so, continue rinsing.

2.3 Other hazards – none
Section 3 – Composition/Information on Ingredients

Human TLR1-9 Agonist Kit contains the components listed below.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>GHS Classification</th>
<th>Pictogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Endotoxin-free water</td>
<td>7732-18-5</td>
<td>Not dangerous</td>
<td>None</td>
</tr>
<tr>
<td>FLA-ST Ultrapure (flagellin from Salmonella typhimurium)</td>
<td>Not available</td>
<td>Not dangerous</td>
<td>None</td>
</tr>
<tr>
<td>FSL-1 (synthetic diacylated lipoprotein)</td>
<td>Not available</td>
<td>Not dangerous</td>
<td>None</td>
</tr>
<tr>
<td>HKLM (heated killed Listeria monocytogenes)</td>
<td>Not available</td>
<td>Not dangerous</td>
<td>None</td>
</tr>
<tr>
<td>LPS-EK Ultrapure (lipopolysaccharide from E. coli K12)</td>
<td>Not available</td>
<td>Not dangerous</td>
<td>None</td>
</tr>
<tr>
<td>ODN1826 (oligonucleotide)</td>
<td>Not available</td>
<td>Not dangerous</td>
<td>None</td>
</tr>
<tr>
<td>Pam3CSK4 (synthetic triacylated lipoprotein)</td>
<td>112208-00-1</td>
<td>Not dangerous</td>
<td>None</td>
</tr>
<tr>
<td>Poly(I:C) &amp; Poly(I:C) LMW (Polyinosinic-polycytidylic acid)</td>
<td>31852-29-6</td>
<td>Not dangerous</td>
<td>None</td>
</tr>
<tr>
<td>ssRNA40/LyoVec™</td>
<td>Not available</td>
<td>Eye irritation (Category 2A)</td>
<td>![ ]</td>
</tr>
</tbody>
</table>

Section 4 – First Aid Measures

General advice: Consult a physician. Show this material safety data sheet to the doctor in attendance.

After skin contact: Immediately wash skin with soap and plenty of water. Consult a physician.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water provided person is conscious. Consult a physician.

After inhalation: Remove to fresh air. If not breathing give artificial respiration. Consult a physician.

After eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

Section 5 – Fire Fighting Measures

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

Specific hazards arising from the chemical: Hazardous decomposition products formed under fire conditions; carbon oxides and nitrogen oxides.

Special Firefighting Procedures: Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 – Accidental Release Measures

Personal precautions: Wear protective equipment. Keep unprotected persons away. Avoid dust formation.

Method for cleaning up: Sweep up and place in closed containers for disposal. Dispose contaminated material as waste according to section 13. Ventilate area and wash spill site after material clean-up is complete.

Section 7 – Handling and Storage

Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage: Store as per data sheet.
Section 8 – Exposure Controls / PPE

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand 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.

Eye protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hygiene measures
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Section 9 – Physical / Chemical Properties

Appearance
Physical state: As per data sheet
Color: As per data sheet

Safety Data
Odor: No data available
Odor threshold: No data available
pH: No data available
Melting point/freezing point: No data available
Initial boiling point and boiling range: No data available
Flash point: No data available
Evaporation rate: No data available
Flammability: No data available
Upper/lower flammability or explosive limits: No data available
Vapor pressure: No data available
Relative density: No data available
Solubility: No data available
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available

Section 10 – Stability and Reactivity

Reactivity: No data available
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: No data available
Conditions to avoid: No data available
Incompatible materials: Strong oxidizing agents, strong bases
Hazardous decomposition products: No data available

Section 11 – Toxicological Information

Acute toxicity:
Oral LD50: No data available
Inhalation LC50: No data available
Dermal LD50: No data available
Other information on acute toxicity: No data available
Skin corrosion/irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available
Carcinogenicity: No data available
Reproductive toxicity: No data available
Additional information: No data available

Section 12 – Ecological Information

Ecotoxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available

Section 13 – Disposal Considerations

Product: Observe all federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Must not be disposed of together with household garbage.
Contaminated Packaging: Dispose of as unused product.

Section 14 – Transport Information

ADR/RID: Not dangerous goods
DOT (US): Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Section 15 – Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical Safety Assessment
no data available

Section 16 – Other Information

The information contained in this SDS relates only to the material(s) designated and does not relate to use(s) in combination with any other material, process(es) and/or chemical reaction(s). InvivoGen provides this information in good faith and is based on our present knowledge. This SDS is provided without warranty of any kind. The recipient is responsible for ensuring that, where applicable, existing laws and guidelines are observed.