Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

PNH detection kit (R), Part Number 8939002

Section 1. Identification

Product identifier : PNH detection kit (R), Part Number 8939002
Part no. (chemical kit) : 8939002
Part no. : PE Mouse anti-human CD59 8939995
         FITC Mouse anti-human CD235a 8939994

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

Material uses : For research use only. Not for use in diagnostic procedures (RUO).
PE Mouse anti-human CD59 0.5 ml
FITC Mouse anti-human CD235a 0.5 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
                       679 Springvale Road
                       Mulgrave
                       Victoria 3170, Australia
                       1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture
PE Mouse anti-human CD59
H412  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

FITC Mouse anti-human CD235a
H412  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

GHS label elements
Signal word : PE Mouse anti-human CD59  No signal word.
             FITC Mouse anti-human CD235a  No signal word.

Hazard statements : PE Mouse anti-human CD59  H412 - Harmful to aquatic life with long lasting effects.
                     FITC Mouse anti-human CD235a  H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements
Prevention : PE Mouse anti-human CD59  P273 - Avoid release to the environment.
             FITC Mouse anti-human CD235a  P273 - Avoid release to the environment.

Response : PE Mouse anti-human CD59  Not applicable.
           FITC Mouse anti-human CD235a  Not applicable.

Storage : PE Mouse anti-human CD59  Not applicable.
          FITC Mouse anti-human CD235a  Not applicable.
Section 2. Hazard(s) identification

Disposal:
- PE Mouse anti-human CD59: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
- FITC Mouse anti-human CD235a: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements:
- Additional warning phrases:
  - PE Mouse anti-human CD59: Not applicable.
  - FITC Mouse anti-human CD235a: Not applicable.

Other hazards which do not result in classification:
- PE Mouse anti-human CD59: None known.
- FITC Mouse anti-human CD235a: None known.

Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>PE Mouse anti-human CD59</th>
<th>FITC Mouse anti-human CD235a</th>
</tr>
</thead>
</table>

CAS number/other identifiers:

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Mouse anti-human CD59 Sodium azide</td>
<td>&lt;1</td>
<td>26628-22-8</td>
</tr>
<tr>
<td>FITC Mouse anti-human CD235a Sodium azide</td>
<td>&lt;1</td>
<td>26628-22-8</td>
</tr>
</tbody>
</table>

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures:

Eye contact:
- PE Mouse anti-human CD59: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- FITC Mouse anti-human CD235a: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

Inhalation:
- PE Mouse anti-human CD59: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- FITC Mouse anti-human CD235a: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
## Section 4. First aid measures

**CD235a**

- **Skin contact**
  - **PE Mouse anti-human CD59**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
  - **FITC Mouse anti-human CD235a**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

- **Ingestion**
  - **PE Mouse anti-human CD59**: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
  - **FITC Mouse anti-human CD235a**: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

**Potential acute health effects**

**Eye contact**
- **PE Mouse anti-human CD59**: No known significant effects or critical hazards.
- **FITC Mouse anti-human CD235a**: No known significant effects or critical hazards.

**Inhalation**
- **PE Mouse anti-human CD59**: No known significant effects or critical hazards.
- **FITC Mouse anti-human CD235a**: No known significant effects or critical hazards.
Section 4. First aid measures

Skin contact: PE Mouse anti-human CD59 No known significant effects or critical hazards.
FITC Mouse anti-human CD235a
Ingestion: PE Mouse anti-human CD59 No known significant effects or critical hazards.
FITC Mouse anti-human CD235a

Over-exposure signs/symptoms:

Eye contact: PE Mouse anti-human CD59 No specific data.
FITC Mouse anti-human CD235a
Inhalation: PE Mouse anti-human CD59 No specific data.
FITC Mouse anti-human CD235a
Skin contact: PE Mouse anti-human CD59 No specific data.
FITC Mouse anti-human CD235a
Ingestion: PE Mouse anti-human CD59 No specific data.
FITC Mouse anti-human CD235a

Indication of immediate medical attention and special treatment needed, if necessary:

Notes to physician: PE Mouse anti-human CD59 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
FITC Mouse anti-human CD235a
Specific treatments: PE Mouse anti-human CD59 No specific treatment.
FITC Mouse anti-human CD235a
Protection of first-aiders: PE Mouse anti-human CD59 No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
FITC Mouse anti-human CD235a

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media: PE Mouse anti-human CD59 Use an extinguishing agent suitable for the surrounding fire.
FITC Mouse anti-human CD235a
Unsuitable extinguishing media: PE Mouse anti-human CD59 None known.
FITC Mouse anti-human CD235a
Section 5. Firefighting measures

Specific hazards arising from the chemical:
- **PE Mouse anti-human CD59**
  - In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- **FITC Mouse anti-human CD235a**
  - In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products:
- **PE Mouse anti-human CD59**
  - No specific data.
- **FITC Mouse anti-human CD235a**
  - No specific data.

Special protective actions for fire-fighters:
- **PE Mouse anti-human CD59**
  - Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- **FITC Mouse anti-human CD235a**
  - Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters:
- **PE Mouse anti-human CD59**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- **FITC Mouse anti-human CD235a**
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:
- **PE Mouse anti-human CD59**
  - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- **FITC Mouse anti-human CD235a**
  - No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:
- **PE Mouse anti-human CD59**
  - If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- **FITC Mouse anti-human CD235a**
  - If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
### Section 6. Accidental release measures

**Environmental precautions**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Measurement</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Mouse anti-human CD59</td>
<td></td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</td>
</tr>
<tr>
<td>FITC Mouse anti-human CD235a</td>
<td></td>
<td>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</td>
</tr>
</tbody>
</table>

**Methods and material for containment and cleaning up**

**Methods for cleaning up**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Measurement</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Mouse anti-human CD59</td>
<td></td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
<tr>
<td>FITC Mouse anti-human CD235a</td>
<td></td>
<td>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</td>
</tr>
</tbody>
</table>

### Section 7. Handling and storage

**Precautions for safe handling**

**Protective measures**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Measurement</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Mouse anti-human CD59</td>
<td></td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
<tr>
<td>FITC Mouse anti-human CD235a</td>
<td></td>
<td>Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
</tbody>
</table>

**Advice on general occupational hygiene**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Measurement</th>
<th>Precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Mouse anti-human CD59</td>
<td></td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
<tr>
<td>FITC Mouse anti-human CD235a</td>
<td></td>
<td>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</td>
</tr>
</tbody>
</table>
Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

PE  Mouse anti-human CD59
Sodium azide

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

FITC  Mouse anti-human CD235a
Sodium azide

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE  Mouse anti-human CD59</td>
<td>Safe Work Australia (Australia, 4/2018).</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>PEAK: 0.11 ppm</td>
</tr>
<tr>
<td></td>
<td>PEAK: 0.3 mg/m³</td>
</tr>
<tr>
<td>FITC  Mouse anti-human CD235a</td>
<td>Safe Work Australia (Australia, 4/2018).</td>
</tr>
<tr>
<td>Sodium azide</td>
<td>PEAK: 0.11 ppm</td>
</tr>
<tr>
<td></td>
<td>PEAK: 0.3 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Date of issue/Date of revision: 10/08/2020
Date of previous issue: No previous validation
Version: 1
Section 8. Exposure controls and personal protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>PE  Mouse anti-human CD59</th>
<th>FITC Mouse anti-human CD235a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Odour</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>0°C (32°F)</td>
<td>0°C (32°F)</td>
</tr>
<tr>
<td>Boiling point</td>
<td>100°C (212°F)</td>
<td>100°C (212°F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Lower and upper explosive</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>(flammable) limits</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour density</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

### Relative density
- **PE** Mouse anti-human CD59: Not available.
- **FITC** Mouse anti-human CD235a: Not available.

### Solubility
- **PE** Mouse anti-human CD59: Easily soluble in the following materials: cold water and hot water.
- **FITC** Mouse anti-human CD235a: Easily soluble in the following materials: cold water and hot water.

### Partition coefficient: n-octanol/water
- **PE** Mouse anti-human CD59: Not available.
- **FITC** Mouse anti-human CD235a: Not available.

### Auto-ignition temperature
- **PE** Mouse anti-human CD59: Not available.
- **FITC** Mouse anti-human CD235a: Not available.

### Decomposition temperature
- **PE** Mouse anti-human CD59: Not available.
- **FITC** Mouse anti-human CD235a: Not available.

### Viscosity
- **PE** Mouse anti-human CD59: Not available.
- **FITC** Mouse anti-human CD235a: Not available.

Section 10. Stability and reactivity

### Reactivity
- **PE** Mouse anti-human CD59: No specific test data related to reactivity available for this product or its ingredients.
- **FITC** Mouse anti-human CD235a: No specific test data related to reactivity available for this product or its ingredients.

### Chemical stability
- **PE** Mouse anti-human CD59: The product is stable.
- **FITC** Mouse anti-human CD235a: The product is stable.

### Possibility of hazardous reactions
- **PE** Mouse anti-human CD59: Under normal conditions of storage and use, hazardous reactions will not occur.
- **FITC** Mouse anti-human CD235a: Under normal conditions of storage and use, hazardous reactions will not occur.

### Conditions to avoid
- **PE** Mouse anti-human CD59: No specific data.
- **FITC** Mouse anti-human CD235a: No specific data.

### Incompatible materials
- **PE** Mouse anti-human CD59: May react or be incompatible with oxidising materials.
- **FITC** Mouse anti-human CD235a: May react or be incompatible with oxidising materials.

### Hazardous decomposition products
- **PE** Mouse anti-human CD59: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **FITC** Mouse anti-human CD235a: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE  Mouse anti-human CD59 Sodium azide</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>20 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>50 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>27 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>FITC  Mouse anti-human CD235a Sodium azide</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>20 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rat</td>
<td>50 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>27 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion
Not available.

Sensitisation
Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)
Not available.

Specific target organ toxicity (repeated exposure)
Not available.

Aspiration hazard
Not available.

Information on likely routes of exposure

PE  Mouse anti-human CD59: Not available.
FITC  Mouse anti-human CD235a: Not available.

Potential acute health effects

Eye contact
PE  Mouse anti-human CD59: No known significant effects or critical hazards.
FITC  Mouse anti-human CD235a: No known significant effects or critical hazards.

Inhalation
PE  Mouse anti-human CD59: No known significant effects or critical hazards.
FITC  Mouse anti-human CD235a: No known significant effects or critical hazards.

Skin contact
PE  Mouse anti-human CD59: No known significant effects or critical hazards.
FITC  Mouse anti-human CD235a: No known significant effects or critical hazards.

Ingestion
PE  Mouse anti-human CD59: No known significant effects or critical hazards.
FITC  Mouse anti-human CD235a: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Date of issue/Date of revision: 10/08/2020
Date of previous issue: No previous validation
Version: 1
Section 11. Toxicological information

**Eye contact**
- PE Mouse anti-human CD59: No specific data.
- FITC Mouse anti-human CD235a: No specific data.

**Inhalation**
- PE Mouse anti-human CD59: No specific data.
- FITC Mouse anti-human CD235a: No specific data.

**Skin contact**
- PE Mouse anti-human CD59: No specific data.
- FITC Mouse anti-human CD235a: No specific data.

**Ingestion**
- PE Mouse anti-human CD59: No specific data.
- FITC Mouse anti-human CD235a: No specific data.

**General**
- No known significant effects or critical hazards.

**Carcinogenicity**
- No known significant effects or critical hazards.

**Mutagenicity**
- No known significant effects or critical hazards.

**Teratogenicity**
- No known significant effects or critical hazards.

**Developmental effects**
- No known significant effects or critical hazards.

**Fertility effects**
- No known significant effects or critical hazards.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Short term exposure**
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

**Long term exposure**
- Potential immediate effects: Not available.
- Potential delayed effects: Not available.

**Potential chronic health effects**
- General: No known significant effects or critical hazards.
- Carcinogenicity: No known significant effects or critical hazards.
- Mutagenicity: No known significant effects or critical hazards.
- Teratogenicity: No known significant effects or critical hazards.
- Developmental effects: No known significant effects or critical hazards.
- Fertility effects: No known significant effects or critical hazards.

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Oral (mg/kg)</th>
<th>Dermal (mg/kg)</th>
<th>Inhalation (gases) (ppm)</th>
<th>Inhalation (vapours) (mg/l)</th>
<th>Inhalation (dusts and mists) (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Mouse anti-human CD59 Sodium azide</td>
<td>27</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>FITC Mouse anti-human CD235a Sodium azide</td>
<td>27</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 10/08/2020
Date of previous issue: No previous validation
Version: 1

PNH detection kit (R), Part Number 8939002
Section 12. Ecological information

Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Mouse anti-human CD59 Sodium azide</td>
<td>Acute EC50 0.348 mg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 6.4 mg/l Fresh water</td>
<td>Crustaceans - Simocephalus serrulatus - Larvae</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 4.2 mg/l Fresh water</td>
<td>Daphnia - Daphnia pulex - Larvae</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 0.68 mg/l Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 5600 μg/l Marine water</td>
<td>Algae - Macrocystis pyrifera</td>
<td>96 hours</td>
</tr>
<tr>
<td>FITC Mouse anti-human CD235a Sodium azide</td>
<td>Acute EC50 0.348 mg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 6.4 mg/l Fresh water</td>
<td>Crustaceans - Simocephalus serrulatus - Larvae</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 4.2 mg/l Fresh water</td>
<td>Daphnia - Daphnia pulex - Larvae</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 0.68 mg/l Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 5600 μg/l Marine water</td>
<td>Algae - Macrocystis pyrifera</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (KOC) : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code.

Special precautions for user : Transport within user’s premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons
Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances
No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals
Not listed.

Montreal Protocol
Not listed.

Stockholm Convention on Persistent Organic Pollutants
Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals
Not listed.

Inventory list

Australia : Not determined.
Canada : Not determined.
China : All components are listed or exempted.
Europe : All components are listed or exempted.
Japan : Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.
New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : All components are listed or exempted.
Thailand : Not determined.
Turkey : Not determined.
United States : All components are active or exempted.
Viet Nam : Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 10/08/2020
Date of previous issue : No previous validation
Version : 1

PNH detection kit (R), Part Number 8939002
Section 16. Any other relevant information

Key to abbreviations:
- ADG = Australian Dangerous Goods
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- N/A = Not available
- SUSMP = Standard Uniform Schedule of Medicine and Poisons
- UN = United Nations

Procedure used to derive the classification:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE Mouse anti-human CD59 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3</td>
<td>Calculation method</td>
</tr>
<tr>
<td>FITC Mouse anti-human CD235a LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

References:
- Not available.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.