

# SAFETY DATA SHEET

IMT assay (anti-CD71) tethering kit, Part Number 8100017

## Section 1. Identification

**Product identifier** : IMT assay (anti-CD71) tethering kit, Part Number 8100017  
**Part no. (chemical kit)** : 8100017  
**Part no.** : Tethering Reagent (anti-CD71) 8710260  
 10X Tethering Buffer 871B617  
 Cytolysis Reagent 8710239

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

**Identified uses** :  For research use only.  
 Tethering Reagent (anti-CD71) 0.25 ml  
 10X Tethering Buffer 10 ml  
 Cytolysis Reagent 10 ml

**Uses advised against** :  Not for use in diagnostic procedures (RUO).

**Supplier/Manufacturer** : Agilent Technologies, Inc.  
 5301 Stevens Creek Blvd  
 Santa Clara, CA 95051, USA  
 800-227-9770

**Emergency telephone number (with hours of operation)** : CHEMTREC®: 1-800-424-9300

## Section 2. Hazard identification

### Classification of the substance or mixture

Tethering Reagent (anti-CD71)  
 H412 AQUATIC HAZARD (LONG-TERM) - Category 3

**Cytolysis Reagent**  
 H318 SERIOUS EYE DAMAGE - Category 1  
 H400 AQUATIC HAZARD (ACUTE) - Category 1  
 H411 AQUATIC HAZARD (LONG-TERM) - Category 2

### GHS label elements

**Hazard pictograms** :  Cytolysis Reagent



**Signal word** : Tethering Reagent (anti-CD71) No signal word.  
 10X Tethering Buffer No signal word.  
 Cytolysis Reagent Danger

**Hazard statements** :  Tethering Reagent (anti-CD71) H412 - Harmful to aquatic life with long lasting effects.  
 10X Tethering Buffer No known significant effects or critical hazards.  
 Cytolysis Reagent H318 - Causes serious eye damage.  
 H400 - Very toxic to aquatic life.  
 H411 - Toxic to aquatic life with long lasting effects.

### Precautionary statements

## Section 2. Hazard identification

|  |  |   |
|--|--|---|
| <b>Prevention</b>  | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent     | P273 - Avoid release to the environment.<br><br>Not applicable.<br>P280 - Wear eye or face protection.<br>P273 - Avoid release to the environment.  |
| <b>Response</b>  | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent     | Not applicable.<br>P391 - Collect spillage.<br>P305 + P351 + P338, P310 - 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 or doctor.                      |
| <b>Storage</b>   | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent     | Not applicable.<br><br>Not applicable.<br>Not applicable.   |
| <b>Disposal</b>  | : Tethering Reagent (anti-CD71)<br><br>10X Tethering Buffer<br>Cytolysis Reagent | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.<br><br>Not applicable.<br>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| <b>Supplemental label elements</b>                         | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent     | None known.<br><br>None known.<br>None known.   |
| <b>Other hazards which do not result in classification</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent     | None known.<br><br>None known.<br>None known.   |

## Section 3. Composition/information on ingredients

|                          |  |                                   |
|--------------------------|--|-----------------------------------|
| <b>Substance/mixture</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | Mixture<br><br>Mixture<br>Mixture |
|--------------------------|--|-----------------------------------|

| Ingredient name                    | Synonyms     | % (w/w)   | CAS number |
|------------------------------------|--------------|-----------|------------|
| Tethering Reagent (anti-CD71)      |              |           |            |
| Sodium azide                       | Sodium azide | ≥0.1 - ≤1 | 26628-22-8 |
| Cytolysis Reagent                  |              |           |            |
| Polyoxyethylene octyl phenyl ether | Triton X-100 | ≥5 - ≤10  | 9002-93-1  |

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified 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

|                     |                                 |   |
|---------------------|---------------------------------|---|
| <b>Eye contact</b>  | : Tethering Reagent (anti-CD71) | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.   |
|                     | 10X Tethering Buffer            | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.   |
|                     | Cytolysis Reagent               | Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.  |
| <b>Inhalation</b>   | : Tethering Reagent (anti-CD71) | Remove victim to fresh air and keep at rest in a position comfortable for breathing.  |
|                     | 10X Tethering Buffer            | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.   |
|                     | Cytolysis Reagent               | Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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. |
| <b>Skin contact</b> | : Tethering Reagent (anti-CD71) | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
|                     | 10X Tethering Buffer            | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
|                     | Cytolysis Reagent               | Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
| <b>Ingestion</b>    | : Tethering Reagent (anti-CD71) | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.   |
|                     | 10X Tethering Buffer            | Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.  |

## Section 4. First-aid measures

### Cytolysis Reagent

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. 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

|                     |  |   |
|---------------------|--|---|
| <b>Eye contact</b>  | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No known significant effects or critical hazards.<br><br>No known significant effects or critical hazards.<br>Causes serious eye damage.                        |
| <b>Inhalation</b>   | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No known significant effects or critical hazards.<br><br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Skin contact</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No known significant effects or critical hazards.<br><br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Ingestion</b>    | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No known significant effects or critical hazards.<br><br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

#### Over-exposure signs/symptoms

|                     |  |  |
|---------------------|--|--|
| <b>Eye contact</b>  | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific data.<br><br>No specific data.<br>Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
| <b>Inhalation</b>   | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific data.<br><br>No specific data.<br>No specific data.  |
| <b>Skin contact</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific data.<br><br>No specific data.<br>Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |

## Section 4. First-aid measures

|                  |  |  |
|------------------|--|--|
| <b>Ingestion</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific data.<br><br>No specific data.<br>Adverse symptoms may include the following:<br>stomach pains |
|------------------|--|--|

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

|                                   |  |   |
|-----------------------------------|--|---|
| <b>Notes to physician</b>         | : Tethering Reagent (anti-CD71)<br><br>10X Tethering Buffer<br><br>Cytolysis Reagent | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.<br><br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.<br><br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |
| <b>Specific treatments</b>        | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent         | No specific treatment.<br><br>No specific treatment.<br>No specific treatment.  |
| <b>Protection of first-aiders</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br><br>Cytolysis Reagent     | No action shall be taken involving any personal risk or without suitable training.<br>No action shall be taken involving any personal risk or without suitable training.<br>No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

|   |  |  |
|---|--|--|
| <b>Suitable extinguishing media</b>               | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br><br>Cytolysis Reagent | Use an extinguishing agent suitable for the surrounding fire.<br>Use an extinguishing agent suitable for the surrounding fire.<br>Use an extinguishing agent suitable for the surrounding fire.  |
| <b>Unsuitable extinguishing media</b>             | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent     | None known.<br><br>None known.<br>None known.  |
| <b>Specific hazards arising from the chemical</b> | : Tethering Reagent (anti-CD71)<br><br>10X Tethering Buffer                      | 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.<br><br>In a fire or if heated, a pressure increase will occur and the container may burst. |

## Section 5. Fire-fighting measures

|   |                                 |  |
|---|---------------------------------|--|
|   | Cytolysis Reagent               | In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life. This material is toxic 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. |
| <b>Hazardous thermal decomposition products</b>       | : Tethering Reagent (anti-CD71) | No specific data.  |
|   | 10X Tethering Buffer            | Decomposition products may include the following materials:<br>halogenated compounds<br>metal oxide/oxides   |
|   | Cytolysis Reagent               | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide   |
| <b>Special protective actions for fire-fighters</b>   | : Tethering Reagent (anti-CD71) | 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.  |
|   | 10X Tethering Buffer            | 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.  |
|   | Cytolysis Reagent               | 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.  |
| <b>Special protective equipment for fire-fighters</b> | : Tethering Reagent (anti-CD71) | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |
|   | 10X Tethering Buffer            | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |
|   | Cytolysis Reagent               | 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

|                                    |                                 |   |
|------------------------------------|---------------------------------|---|
| <b>For non-emergency personnel</b> | : Tethering Reagent (anti-CD71) | 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 spilled material. Put on appropriate personal protective equipment. |
|                                    | 10X Tethering Buffer            | 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 spilled material. Put on appropriate personal protective equipment. |
|                                    | Cytolysis Reagent               | No action shall be taken involving any personal risk  |

## Section 6. Accidental release measures

|   |                                 |  |
|---|---------------------------------|--|
|   |                                 | or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>                                     | : Tethering Reagent (anti-CD71) | If specialized 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".  |
|   | 10X Tethering Buffer            | If specialized 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".  |
|   | Cytolysis Reagent               | If specialized 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".  |
| <b>Environmental precautions</b>                                    | : Tethering Reagent (anti-CD71) | Avoid dispersal of spilled 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.                         |
|   | 10X Tethering Buffer            | Avoid dispersal of spilled 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).  |
|   | Cytolysis Reagent               | Avoid dispersal of spilled 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. Collect spillage.       |
| <b><u>Methods and materials for containment and cleaning up</u></b> |                                 |  |
| <b>Methods for cleaning up</b>                                      | : Tethering Reagent (anti-CD71) | 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.  |
|   | 10X Tethering Buffer            | 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.  |
|   | Cytolysis Reagent               | 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.  |

## Section 7. Handling and storage

### Precautions for safe handling

|                            |                                 |   |
|----------------------------|---------------------------------|---|
| <b>Protective measures</b> | : Tethering Reagent (anti-CD71) | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor 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.   |
|                            | 10X Tethering Buffer            | Put on appropriate personal protective equipment (see Section 8).   |
|                            | Cytolysis Reagent               | Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. |

|   |                                 |   |
|---|---------------------------------|---|
| <b>Advice on general occupational hygiene</b> | : Tethering Reagent (anti-CD71) | 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. |
|   | 10X Tethering Buffer            | 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. |
|   | Cytolysis Reagent               | 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. |

|   |                                 |  |
|---|---------------------------------|--|
| <b>Conditions for safe storage, including any incompatibilities</b> | : Tethering Reagent (anti-CD71) | 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |
|   | 10X Tethering Buffer            | 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   |



## Section 7. Handling and storage

Cytolysis Reagent

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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. Store locked up. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### [Control parameters](#)

### [Occupational exposure limits](#)

| Ingredient name  | Exposure limits   |
|--|---|
| <p><b>Tethering Reagent (anti-CD71)</b><br/>Sodium azide</p> | <p><b>CA Alberta Provincial (Canada, 6/2018).</b><br/>C: 0.11 ppm, (hydrazoic acid vapours)<br/>15 min OEL: 0.3 mg/m<sup>3</sup>, (hydrazoic acid vapours) 15 minutes.<br/>C: 0.29 mg/m<sup>3</sup></p> <p><b>CA British Columbia Provincial (Canada, 6/2021).</b><br/>C: 0.29 mg/m<sup>3</sup>, (as sodium azide)<br/>C: 0.11 ppm, (as hydrazoic acid vapour)</p> <p><b>CA Ontario Provincial (Canada, 6/2019).</b><br/>Ceiling Limit: 0.11 ppm, (as hydrazoic acid vapor)<br/>Ceiling Limit: 0.29 mg/m<sup>3</sup>, (Dust and fumes)</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b><br/>CEIL: 0.11 ppm, (measured as hydrazoic acid vapour)<br/>CEIL: 0.29 mg/m<sup>3</sup>, (measured as sodium azide)</p> |

### [Biological exposure indices](#)

None known.

### [Appropriate engineering controls](#)

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

### [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.

## Section 8. Exposure controls/personal protection

### 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: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
- Skin 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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

|                       |                                 |                |
|-----------------------|---------------------------------|----------------|
| <b>Physical state</b> | : Tethering Reagent (anti-CD71) | Liquid.        |
|                       | 10X Tethering Buffer            | Liquid.        |
|                       | Cytolysis Reagent               | Liquid.        |
| <b>Color</b>          | : Tethering Reagent (anti-CD71) | Colorless.     |
|                       | 10X Tethering Buffer            | Colorless.     |
|                       | Cytolysis Reagent               | Colorless.     |
| <b>Odor</b>           | : Tethering Reagent (anti-CD71) | Not available. |
|                       | 10X Tethering Buffer            | Not available. |
|                       | Cytolysis Reagent               | Not available. |
| <b>Odor threshold</b> | : Tethering Reagent (anti-CD71) | Not available. |
|                       | 10X Tethering Buffer            | Not available. |
|                       | Cytolysis Reagent               | Not available. |
| <b>pH</b>             | :                               |                |

## Section 9. Physical and chemical properties and safety characteristics

**Melting point/freezing point** : Tethering Reagent (anti-CD71) Not available.  
 10X Tethering Buffer 7 to 7.2  
 Cytolysis Reagent Not available.

Tethering Reagent (anti-CD71) 0°C (32°F)  
 10X Tethering Buffer Not available.  
 Cytolysis Reagent Not available.

**Boiling point, initial boiling point, and boiling range** : Tethering Reagent (anti-CD71) 100°C (212°F)  
 10X Tethering Buffer Not available.  
 Cytolysis Reagent Not available.

**Flash point** :

| Ingredient name                    | Closed cup |       |        | Open cup |    |        |
|------------------------------------|------------|-------|--------|----------|----|--------|
|                                    | °C         | °F    | Method | °C       | °F | Method |
| <b>Cytolysis Reagent</b>           |            |       |        |          |    |        |
| Polyoxyethylene octyl phenyl ether | 251        | 483.8 |        |          |    |        |

**Evaporation rate** : Tethering Reagent (anti-CD71) Not available.  
 10X Tethering Buffer Not available.  
 Cytolysis Reagent Not available.

**Flammability** : Tethering Reagent (anti-CD71) Not applicable.  
 10X Tethering Buffer Not applicable.  
 Cytolysis Reagent Not applicable.

**Lower and upper explosion limit/flammability limit** : Tethering Reagent (anti-CD71) Not available.  
 10X Tethering Buffer Not available.  
 Cytolysis Reagent Not available.

**Vapor pressure** :

| Ingredient name                      | Vapor Pressure at 20°C |      |        | Vapor pressure at 50°C |      |        |
|--------------------------------------|------------------------|------|--------|------------------------|------|--------|
|                                      | mm Hg                  | kPa  | Method | mm Hg                  | kPa  | Method |
| <b>Tethering Reagent (anti-CD71)</b> |                        |      |        |                        |      |        |
| water                                | 23.8                   | 3.2  |        | 92.258                 | 12.3 |        |
| <b>10X Tethering Buffer</b>          |                        |      |        |                        |      |        |
| water                                | 23.8                   | 3.2  |        | 92.258                 | 12.3 |        |
| <b>Cytolysis Reagent</b>             |                        |      |        |                        |      |        |
| water                                | 23.8                   | 3.2  |        | 92.258                 | 12.3 |        |
| Polyoxyethylene octyl phenyl ether   | 0.997581               | 0.13 |        |                        |      |        |

## Section 9. Physical and chemical properties and safety characteristics

|                               |  |  |
|-------------------------------|--|--|
| <b>Relative vapor density</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | Not available.<br>Not available.<br>Not available. |
| <b>Relative density</b>       | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | Not available.<br>Not available.<br>Not available. |

|                        |  |               |
|------------------------|--|---------------|
| <b>Solubility(ies)</b> | : <b>Media</b>                         | <b>Result</b> |
|                        | Tethering Reagent (anti-CD71)<br>water | Soluble       |
|                        | 10X Tethering Buffer<br>water          | Soluble       |
|                        | Cytolysis Reagent<br>water             | Soluble       |

|   |  |   |
|---|--|---|
| <b>Partition coefficient: n-octanol/water</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | Not applicable.<br>Not applicable.<br>Not applicable. |
|---|--|---|

|                                  |  |  |
|----------------------------------|--|--|
| <b>Auto-ignition temperature</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | Not available.<br>Not available.<br>Not available. |
|----------------------------------|--|--|

|                                  |  |  |
|----------------------------------|--|--|
| <b>Decomposition temperature</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | Not available.<br>Not available.<br>Not available. |
|----------------------------------|--|--|

|                  |  |  |
|------------------|--|--|
| <b>Viscosity</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | Not available.<br>Not available.<br>Not available. |
|------------------|--|--|

### Particle characteristics

|                             |  |   |
|-----------------------------|--|---|
| <b>Median particle size</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | Not applicable.<br>Not applicable.<br>Not applicable. |
|-----------------------------|--|---|

## Section 10. Stability and reactivity

|                   |  |  |
|-------------------|--|--|
| <b>Reactivity</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients. |
|-------------------|--|--|

|                           |  |  |
|---------------------------|--|--|
| <b>Chemical stability</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | The product is stable.<br>The product is stable.<br>The product is stable. |
|---------------------------|--|--|

## Section 10. Stability and reactivity

|   |  |  |
|---|--|--|
| <b>Possibility of hazardous reactions</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br><br>Cytolysis Reagent     | Under normal conditions of storage and use, hazardous reactions will not occur.<br>Under normal conditions of storage and use, hazardous reactions will not occur.<br>Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>Conditions to avoid</b>                | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent         | No specific data.<br>No specific data.<br>No specific data.  |
| <b>Incompatible materials</b>             | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent         | May react or be incompatible with oxidizing materials.<br>May react or be incompatible with oxidizing materials.<br>May react or be incompatible with oxidizing materials.   |
| <b>Hazardous decomposition products</b>   | : Tethering Reagent (anti-CD71)<br><br>10X Tethering Buffer<br><br>Cytolysis Reagent | Under normal conditions of storage and use, hazardous decomposition products should not be produced.<br>Under normal conditions of storage and use, hazardous decomposition products should not be produced.<br>Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                                 | Result                          | Species               | Dose                  | Exposure |
|---|---------------------------------|-----------------------|-----------------------|----------|
| Tethering Reagent (anti-CD71)<br>Sodium azide           | LC50 Inhalation Dusts and mists | Rat - Male,<br>Female | 0.054 to 0.52<br>mg/l | 4 hours  |
|   | LD50 Dermal                     | Rabbit                | 20 mg/kg              | -        |
|   | LD50 Dermal                     | Rat                   | 50 mg/kg              | -        |
|   | LD50 Oral                       | Rat                   | 27 mg/kg              | -        |
| Cytolysis Reagent<br>Polyoxyethylene octyl phenyl ether | LD50 Oral                       | Rat                   | 1800 mg/kg            | -        |

#### Irritation/Corrosion

| Product/ingredient name                                 | Result               | Species | Score | Exposure           | Observation |
|---|----------------------|---------|-------|--------------------|-------------|
| Cytolysis Reagent<br>Polyoxyethylene octyl phenyl ether | Skin - Mild irritant | Rabbit  | -     | 24 hours 500<br>uL | -           |

#### Sensitization

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

## Section 11. Toxicological information

**Conclusion/Summary** : Not available.

### Classification

| Product/ingredient name                       | IARC | NTP | ACGIH |
|---|------|-----|-------|
| Tethering Reagent (anti-CD71)<br>Sodium azide | -    | -   | A4    |

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

| Name  | Category   | Route of exposure | Target organs                                    |
|---|------------|-------------------|--|
| Tethering Reagent (anti-CD71)<br>Sodium azide | Category 1 | -                 | cardiovascular system,<br>gastrointestinal tract |

### Specific target organ toxicity (repeated exposure)

| Name  | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| Tethering Reagent (anti-CD71)<br>Sodium azide | Category 2 | -                 | central nervous system (CNS) |

### Aspiration hazard

Not available.

### Information on the likely routes of exposure

: Tethering Reagent (anti-CD71)  
10X Tethering Buffer  
Cytolysis Reagent

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.  
Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

#### Eye contact

: Tethering Reagent (anti-CD71)  
10X Tethering Buffer  
Cytolysis Reagent

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
Causes serious eye damage.

#### Inhalation

: Tethering Reagent (anti-CD71)  
10X Tethering Buffer  
Cytolysis Reagent

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

#### Skin contact

: Tethering Reagent (anti-CD71)  
10X Tethering Buffer  
Cytolysis Reagent

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

#### Ingestion

: Tethering Reagent (anti-CD71)  
10X Tethering Buffer  
Cytolysis Reagent

No known significant effects or critical hazards.  
No known significant effects or critical hazards.  
No known significant effects or critical hazards.

## Section 11. Toxicological information

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

|                     |  |  |
|---------------------|--|--|
| <b>Eye contact</b>  | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific data.<br><br>No specific data.<br>Adverse symptoms may include the following:<br>pain<br>watering<br>redness                           |
| <b>Inhalation</b>   | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific data.<br><br>No specific data.<br>No specific data.  |
| <b>Skin contact</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific data.<br><br>No specific data.<br>Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>blistering may occur |
| <b>Ingestion</b>    | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No specific data.<br><br>No specific data.<br>Adverse symptoms may include the following:<br>stomach pains   |

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Long term exposure

|                                    |                  |
|------------------------------------|------------------|
| <b>Potential immediate effects</b> | : Not available. |
| <b>Potential delayed effects</b>   | : Not available. |

#### Potential chronic health effects

|                              |  |   |
|------------------------------|--|---|
| <b>General</b>               | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No known significant effects or critical hazards.<br><br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Carcinogenicity</b>       | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No known significant effects or critical hazards.<br><br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No known significant effects or critical hazards.<br><br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Reproductive toxicity</b> | : Tethering Reagent (anti-CD71)<br>10X Tethering Buffer<br>Cytolysis Reagent | No known significant effects or critical hazards.<br><br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

### Numerical measures of toxicity

#### Acute toxicity estimates

## Section 11. Toxicological information

| Product/ingredient name                              | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| <b>Tethering Reagent (anti-CD71)</b><br>Sodium azide | 27           | 20             | N/A                      | N/A                        | 0.054                               |
| <b>10X Tethering Buffer</b><br>10X Tethering Buffer  | 30303.0      | N/A            | N/A                      | N/A                        | N/A                                 |
| <b>Cytolysis Reagent</b><br>Cytolysis Reagent        | 18181.8      | N/A            | N/A                      | N/A                        | N/A                                 |
| Polyoxyethylene octyl phenyl ether                   | 1800         | N/A            | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name  | Result   | Species  | Exposure                         |
|--|--|--|----------------------------------|
| <b>Tethering Reagent (anti-CD71)</b><br>Sodium azide           | Acute EC50 9200 µg/l Marine water<br>Acute EC50 6.4 mg/l Fresh water                                     | Algae - <i>Macrocystis pyrifera</i><br>Crustaceans - <i>Simocephalus serrulatus</i> - Larvae   | 96 hours<br>48 hours             |
|  | Acute EC50 4.2 mg/l Fresh water  | Daphnia - <i>Daphnia pulex</i> - Larvae  | 48 hours                         |
|  | Acute LC50 0.68 mg/l Fresh water<br>Chronic NOEC 5600 µg/l Marine water                                  | Fish - <i>Lepomis macrochirus</i><br>Algae - <i>Macrocystis pyrifera</i>   | 96 hours<br>96 hours             |
| <b>Cytolysis Reagent</b><br>Polyoxyethylene octyl phenyl ether | Acute LC50 5.85 mg/l Fresh water<br>Acute LC50 11.2 mg/l Fresh water<br>Acute LC50 4500 µg/l Fresh water | Crustaceans - <i>Ceriodaphnia rigaudi</i> - Neonate<br>Daphnia - <i>Daphnia magna</i> - Neonate<br>Fish - <i>Pimephales promelas</i> | 48 hours<br>48 hours<br>96 hours |

### Persistence and degradability

| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| <b>Cytolysis Reagent</b><br>Polyoxyethylene octyl phenyl ether | -                 | -          | Readily          |

### Bioaccumulative potential

| Product/ingredient name  | LogP <sub>ow</sub> | BCF | Potential |
|--|--------------------|-----|-----------|
| <b>Cytolysis Reagent</b><br>Polyoxyethylene octyl phenyl ether | 4.86               | -   | high      |

### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.




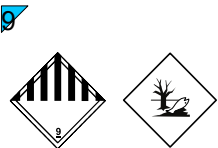

## Section 12. Ecological information

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                                   | TDG Classification   | IMDG   | IATA   |
|-----------------------------------|--|--|--|
| <b>UN number</b>                  | UN3082   | UN3082   | UN3082   |
| <b>UN proper shipping name</b>    | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyoxyethylene octyl phenyl ether) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyoxyethylene octyl phenyl ether) | Environmentally hazardous substance, liquid, n.o.s. (Polyoxyethylene octyl phenyl ether) |
| <b>Transport hazard class(es)</b> |       |       |     |
| <b>Packing group</b>              | III  | III  | III  |
| <b>Environmental hazards</b>      | Yes.   | Yes.   | Yes.   |

**Proof of classification statement** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark).

### Additional information

**Remarks:** Excepted Quantity

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9), 2.7 (Marine pollutant mark). Non-bulk packages of this product are not regulated as dangerous goods when transported by road or rail.

**Explosive Limit and Limited Quantity Index** 5

**Special provisions** 16, 99

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**Emergency schedules** F-A, S-F

**Special provisions** 274, 335, 969

## Section 14. Transport information

**IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Quantity limitation** Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.

**Special provisions** A97, A158, A197, A215

**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

### Canadian lists

**Canadian NPRI** : The following components are listed: octylphenol and its ethoxylates

**CEPA Toxic substances** : None of the components are listed.

### 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.

**Eurasian Economic Union** : **Russian Federation inventory:** Not determined.

**Japan** : **Japan inventory (CSCL):** Not determined.  
**Japan inventory (ISHL):** All components are listed or exempted.

**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. Other information

### History

**Date of issue/Date of revision** : 12/20/2022

**Date of previous issue** : 05/07/2020

**Version** : 3

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HPR = Hazardous Products Regulations  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 UN = United Nations

### Procedure used to derive the classification

| Classification  | Justification      |
|---|--------------------|
| <b>Tethering Reagent (anti-CD71)</b><br>AQUATIC HAZARD (LONG-TERM) - Category 3 | Calculation method |
| <b>Cytolysis Reagent</b><br>SERIOUS EYE DAMAGE - Category 1                     | Calculation method |
| AQUATIC HAZARD (ACUTE) - Category 1   | Calculation method |
| AQUATIC HAZARD (LONG-TERM) - Category 2   | Calculation method |

Indicates information that has changed from previously issued version.

### Notice to reader

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