Section 1. Identification

Product identifier : AdEasy Viral Titer Kit, Part Number 972500
Part no. (chemical kit) : 972500
Part no. : Mouse Anti-Hexon Antibody 972500-51
          Secondary Goat Anti-Mouse Antibody 972500-53
          10x DAB Substrate 972500-52
          1x Peroxidase 972500-22

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

Material uses : Analytical reagent.
                   Mouse Anti-Hexon Antibody 0.06 ml (60 µg 1 µg/µl)
                   Secondary Goat Anti-Mouse Antibody 0.03 ml (12 µg 0.4 µg/µl)
                   10x DAB Substrate 2 x 1.5 ml
                   1x Peroxidase 30 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

10x DAB Substrate
H226 FLAMMABLE LIQUIDS - Category 3
H301 ACUTE TOXICITY (oral) - Category 3
H311 ACUTE TOXICITY (dermal) - Category 3
H331 ACUTE TOXICITY (inhalation) - Category 3
H314 SKIN CORROSION/IRRITATION - Category 1
H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
H334 RESPIRATORY SENSITISATION - Category 1
H317 SKIN SENSITISATION - Category 1
H341 GERM CELL MUTAGENICITY - Category 2
H350 CARCINOGENICITY - Category 1A
H360 REPRODUCTIVE TOXICITY (Fertility) - Category 1B
H360 REPRODUCTIVE TOXICITY (Unborn child) - Category 1B
H370 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
H373 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
H401 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2
H411 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Secondary Goat Anti-Mouse Antibody Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
10x DAB Substrate Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
10x DAB Substrate Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

GHS label elements
## Section 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
<th>10x DAB Substrate</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal word</strong></td>
<td>Mouse Anti-Hexon Antibody</td>
</tr>
<tr>
<td></td>
<td>Secondary Goat Anti-Mouse Antibody</td>
</tr>
<tr>
<td></td>
<td>10x DAB Substrate</td>
</tr>
<tr>
<td></td>
<td>1x Peroxidase</td>
</tr>
<tr>
<td><strong>Hazard statements</strong></td>
<td>Mouse Anti-Hexon Antibody</td>
</tr>
<tr>
<td></td>
<td>Secondary Goat Anti-Mouse Antibody</td>
</tr>
<tr>
<td></td>
<td>10x DAB Substrate</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1x Peroxidase</td>
</tr>
</tbody>
</table>

**Precautionary statements**

**Prevention**

| Mouse Anti-Hexon Antibody | Not applicable. |
| Secondary Goat Anti-Mouse Antibody | Not applicable. |
| 10x DAB Substrate | P201 - Obtain special instructions before use. |
|                  | P202 - Do not handle until all safety precautions have been read and understood. |
|                  | P281 - Use personal protective equipment as required. |
|                  | P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. |
|                  | P285 - In case of inadequate ventilation wear respiratory protection. |
|                  | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|                  | P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. |
|                  | P242 - Use only non-sparking tools. |
|                  | P243 - Take precautionary measures against static discharge. |
|                  | P233 - Keep container tightly closed. |
|                  | P271 - Use only outdoors or in a well-ventilated area. |
|                  | P273 - Avoid release to the environment. |
|                  | P260 - Do not breathe vapour. |
|                  | P270 - Do not eat, drink or smoke when using this product. |
|                  | P264 - Wash hands thoroughly after handling. |
|                  | P272 - Contaminated work clothing should not be allowed out of the workplace. |
| 1x Peroxidase | Not applicable. |
## Section 2. Hazard(s) identification

### Response

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>P391 - Collect spillage.</td>
</tr>
<tr>
<td></td>
<td>P314 - Get medical attention if you feel unwell.</td>
</tr>
<tr>
<td></td>
<td>P307 + P311 - IF exposed: Call a POISON CENTER or physician.</td>
</tr>
<tr>
<td></td>
<td>P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.</td>
</tr>
<tr>
<td></td>
<td>P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician.</td>
</tr>
<tr>
<td></td>
<td>P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician.</td>
</tr>
<tr>
<td></td>
<td>Rinse mouth. Do NOT induce vomiting.</td>
</tr>
<tr>
<td></td>
<td>P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Storage

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>P405 - Store locked up.</td>
</tr>
<tr>
<td></td>
<td>P403 - Store in a well-ventilated place.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Disposal

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### Supplemental label elements

#### Additional warning phrases

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

#### Other hazards which do not result in classification

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>None known.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>None known.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>None known.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>None known.</td>
</tr>
</tbody>
</table>
Section 3. Composition and ingredient information

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody Mixture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody Mixture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10x DAB Substrate Mixture</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1x Peroxidase Mixture</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number/other identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>≥30 - ≤60</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td></td>
</tr>
<tr>
<td>Ethanediol</td>
<td>≥30 - ≤60</td>
</tr>
<tr>
<td>Methanol</td>
<td>≥30 - ≤60</td>
</tr>
<tr>
<td>Cobalt(II) chloride, hexahydrate</td>
<td>≤1.2</td>
</tr>
<tr>
<td>Nickel dichloride</td>
<td>≤1.2</td>
</tr>
<tr>
<td>Biphenyl-3,3', 4,4'-tetratetraamine</td>
<td>≤3</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

<table>
<thead>
<tr>
<th>Description of necessary first aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Section 4. First aid measures

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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

1x Peroxidase
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact

Mouse Anti-Hexon Antibody
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Secondary Goat Anti-Mouse Antibody
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

10x DAB Substrate
Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and 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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

1x Peroxidase
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

Mouse Anti-Hexon Antibody
Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Secondary Goat Anti-Mouse Antibody
Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

10x DAB Substrate
Get medical attention immediately. Call a poison center or physician. 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. 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.

1x Peroxidase
Wash out mouth with water. Remove victim to fresh
Section 4. First aid measures

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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact
: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase
No known significant effects or critical hazards.

Inhalation
: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase
Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin contact
: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase
Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.

Ingestion
: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase
Toxic if swallowed.

Over-exposure signs/symptoms

Eye contact
: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase
Adverse symptoms may include the following:
- pain
- watering
- redness

Inhalation
: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase
Adverse symptoms may include the following:
- wheezing and breathing difficulties
- asthma
- reduced foetal weight
- increase in foetal deaths
- skeletal malformations

Skin contact
: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase
Adverse symptoms may include the following:
- pain or irritation
- redness
- blistering may occur
- reduced foetal weight
- increase in foetal deaths
- skeletal malformations
Section 4. First aid measures

**Ingestion**

<table>
<thead>
<tr>
<th>Product</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x Peroxidase</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>No specific data.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Adverse symptoms may include the following:</td>
</tr>
<tr>
<td></td>
<td>stomach pains</td>
</tr>
<tr>
<td></td>
<td>reduced foetal weight</td>
</tr>
<tr>
<td></td>
<td>increase in foetal deaths</td>
</tr>
<tr>
<td></td>
<td>skeletal malformations</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**Notes to physician**

<table>
<thead>
<tr>
<th>Product</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</td>
</tr>
</tbody>
</table>

**Specific treatments**

<table>
<thead>
<tr>
<th>Product</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>No specific treatment.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>No specific treatment.</td>
</tr>
</tbody>
</table>

**Protection of first-aiders**

<table>
<thead>
<tr>
<th>Product</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>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.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>No action shall be taken involving any personal risk or without suitable training.</td>
</tr>
</tbody>
</table>

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

**See toxicological information (Section 11)**

Section 5. Firefighting measures

**Extinguishing media**

**Suitable extinguishing media**

<table>
<thead>
<tr>
<th>Product</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Use dry chemical, CO₂, water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td></td>
</tr>
</tbody>
</table>
### Section 5. Firefighting measures

#### Unsuitable extinguishing media

<table>
<thead>
<tr>
<th>Product</th>
<th>Suitable/Media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>None known.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>None known.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Do not use water jet.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>None known.</td>
</tr>
</tbody>
</table>

#### Specific hazards arising from the chemical

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst with the risk of a subsequent explosion. 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.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>In a fire or if heated, a pressure increase will occur and the container may burst.</td>
</tr>
</tbody>
</table>

#### Hazardous thermal decomposition products

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides Formaldehyde.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Decomposition products may include the following materials: carbon dioxide carbon monoxide</td>
</tr>
</tbody>
</table>

#### Special protective actions for fire-fighters

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>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.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>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.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>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.</td>
</tr>
</tbody>
</table>
Section 5. Firefighting measures

Special protective equipment for fire-fighters

- Mouse Anti-Hexon Antibody: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Secondary Goat Anti-Mouse Antibody: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- 10x DAB Substrate: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- 1x Peroxidase: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazchem code

- Mouse Anti-Hexon Antibody: Not available.
- Secondary Goat Anti-Mouse Antibody: Not available.
- 10x DAB Substrate: •3W
- 1x Peroxidase: Not available.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

- Mouse Anti-Hexon Antibody: 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. Put on appropriate personal protective equipment.
- Secondary Goat Anti-Mouse Antibody: 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. Put on appropriate personal protective equipment.
- 10x DAB Substrate: 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 1x Peroxidase: 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. Put on appropriate personal protective equipment.

For emergency responders

- Mouse Anti-Hexon Antibody: 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".
- Secondary Goat Anti-Mouse Antibody: 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".
- 10x DAB Substrate: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on...
Section 6. Accidental release measures

Environmental precautions:

1x Peroxidase

AdEasy Viral Titer Kit, Part Number 972500

Suitable and unsuitable materials. See also the information in "For non-emergency personnel". 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".

Mouse Anti-Hexon Antibody

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).

Secondary Goat Anti-Mouse Antibody

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).

10x DAB Substrate

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. Collect spillage.

1x Peroxidase

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).

Methods and material for containment and cleaning up

Methods for cleaning up:

Mouse Anti-Hexon Antibody

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.

Secondary Goat Anti-Mouse Antibody

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 DAB Substrate

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor.

1x Peroxidase

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

<table>
<thead>
<tr>
<th>Protective measures</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Put on appropriate personal protective equipment (see Section 8).</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
<tr>
<td></td>
<td>10x DAB Substrate</td>
<td>Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.</td>
</tr>
<tr>
<td></td>
<td>1x Peroxidase</td>
<td>Put on appropriate personal protective equipment (see Section 8).</td>
</tr>
</tbody>
</table>

### Advice on general occupational hygiene

| Mouse Anti-Hexon Antibody | 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. |
| Secondary Goat Anti-Mouse Antibody | 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 DAB Substrate | 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. |
| 1x Peroxidase | 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. |
Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

Mouse Anti-Hexon Antibody

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.

Secondary Goat Anti-Mouse Antibody

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.

10x DAB Substrate

Do not store above the following temperature: -20°C (-4°F). Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from alkalis. Separate from oxidizing materials. 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.

1x Peroxidase

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). 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
### Section 8. Exposure controls and personal protection

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.</td>
</tr>
<tr>
<td>Glycerol</td>
<td>Safe Work Australia (Australia, 1/2014). Absorbed through skin.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>TWA: 10 mg/m³ 8 hours. Form: Particulate STEL: 104 mg/m³ 15 minutes. Form: Vapour TWA: 52 mg/m³ 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour</td>
</tr>
<tr>
<td>Ethanediol</td>
<td>Safe Work Australia (Australia, 1/2014). Absorbed through skin.</td>
</tr>
<tr>
<td>Methanol</td>
<td>TWA: 10 mg/m³ 8 hours. Form: Particulate STEL: 104 mg/m³ 15 minutes. Form: Vapour TWA: 52 mg/m³ 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour</td>
</tr>
<tr>
<td>Cobalt(II) chloride, hexahydrate</td>
<td>ACGIH TLV (United States, 3/2017). TWA: 0.02 mg/m³, (as Co) 8 hours.</td>
</tr>
<tr>
<td>Nickel dichloride</td>
<td>Safe Work Australia (Australia, 1/2014). TWA: 0.1 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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

**Skin 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.
Section 8. Exposure controls and personal protection

**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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**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

**Appearance**

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Liquid.</td>
</tr>
<tr>
<td></td>
<td>10x DAB Substrate</td>
<td>Liquid.</td>
</tr>
<tr>
<td></td>
<td>1x Peroxidase</td>
<td>Liquid. [Clear sparkling liquid.]</td>
</tr>
</tbody>
</table>

**Colour**

| Mouse Anti-Hexon Antibody | Not available. |
| Secondary Goat Anti-Mouse Antibody | Not available. |
| 10x DAB Substrate | Purple. |
| 1x Peroxidase | Colourless. |

**Odour threshold**

| Mouse Anti-Hexon Antibody | Not available. |
| Secondary Goat Anti-Mouse Antibody | Not available. |
| 10x DAB Substrate | Alcohol-like. |
| 1x Peroxidase | Not available. |

**pH**

| Mouse Anti-Hexon Antibody | 7.2 |
| Secondary Goat Anti-Mouse Antibody | Not available. |
| 10x DAB Substrate | 1.5 to 2 |
| 1x Peroxidase | 5 to 5.2 |

**Melting point**

| Mouse Anti-Hexon Antibody | 0°C (32°F) |
| Secondary Goat Anti-Mouse Antibody | Not available. |
| 10x DAB Substrate | Not available. |
| 1x Peroxidase | Not available. |

**Boiling point**

| Mouse Anti-Hexon Antibody | 100°C (212°F) |
| Secondary Goat Anti-Mouse Antibody | Not available. |
| 10x DAB Substrate | Not available. |
| 1x Peroxidase | Not available. |

**Flash point**

| Mouse Anti-Hexon Antibody | Not available. |
| Secondary Goat Anti-Mouse Antibody | Not available. |
| 10x DAB Substrate | Closed cup: <30°C (<86°F) |
| 1x Peroxidase | Not available. |
## Section 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Secondary Goat Anti-Mouse Antibody</th>
<th>10x DAB Substrate</th>
<th>1x Peroxidase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation rate</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not available.</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Lower and upper explosive (flammable) limits</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Solubility</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td>Soluble in the following materials: cold water and hot water.</td>
<td>Easily soluble in the following materials: cold water and hot water.</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available.</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>

**Date of issue/Date of revision**: 31/08/2018  
**Date of previous issue**: 24/01/2017  
**Version**: 5
### Section 10. Stability and reactivity

#### Reactivity

<table>
<thead>
<tr>
<th>Component</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>No specific test data related to reactivity available for this product or its ingredients.</td>
</tr>
</tbody>
</table>

#### Chemical stability

<table>
<thead>
<tr>
<th>Component</th>
<th>Chemical stability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>The product is stable.</td>
</tr>
</tbody>
</table>

#### Possibility of hazardous reactions

<table>
<thead>
<tr>
<th>Component</th>
<th>Possibility of hazardous reactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Under normal conditions of storage and use, hazardous reactions will not occur.</td>
</tr>
</tbody>
</table>

#### Conditions to avoid

<table>
<thead>
<tr>
<th>Component</th>
<th>Conditions to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>No specific data.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>No specific data.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

#### Incompatible materials

<table>
<thead>
<tr>
<th>Component</th>
<th>Incompatible materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Reactive or incompatible with the following materials: alkalis oxidizing materials</td>
</tr>
<tr>
<td></td>
<td>May react or be incompatible with oxidising materials.</td>
</tr>
</tbody>
</table>

#### Hazardous decomposition products

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous decomposition products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse Anti-Hexon Antibody</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
<tr>
<td>1x Peroxidase</td>
<td>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</td>
</tr>
</tbody>
</table>
# 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>Secondary Goat Anti-Mouse Antibody</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>12600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>4700 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>4700 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Ethanediol</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>145000 ppm</td>
<td>1 hours</td>
</tr>
<tr>
<td>Methanol</td>
<td>LC50 Inhalation Vapour</td>
<td>Rat</td>
<td>64000 ppm</td>
<td>4 hours</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>15800 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>5600 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>766 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Cobalt(II) chloride, hexahydrate</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>766 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Nickel dichloride</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat - Male</td>
<td>0.593 mg/l</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

### Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Ethanediol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>1 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>6 hours 1440 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>555 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Methanol</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>40 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x DAB Substrate</td>
<td>Category 1</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Route of exposure</th>
<th>Target organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x DAB Substrate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cobalt(II) chloride, hexahydrate</td>
<td>Category 2</td>
<td>Not determined</td>
<td>blood system, heart and thyroid</td>
</tr>
<tr>
<td>Nickel dichloride</td>
<td>Category 1</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Aspiration hazard
Not available.

Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Secondary Goat Anti-Mouse Antibody</th>
<th>10x DAB Substrate</th>
<th>1x Peroxidase</th>
<th>Routes of entry anticipated: Oral, Dermal, Inhalation.</th>
</tr>
</thead>
</table>

Potential acute health effects

Eye contact

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Secondary Goat Anti-Mouse Antibody</th>
<th>10x DAB Substrate</th>
<th>1x Peroxidase</th>
<th>No known significant effects or critical hazards.</th>
</tr>
</thead>
</table>

Inhalation

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Secondary Goat Anti-Mouse Antibody</th>
<th>10x DAB Substrate</th>
<th>1x Peroxidase</th>
<th>Causes serious eye damage.</th>
</tr>
</thead>
</table>

Skin contact

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Secondary Goat Anti-Mouse Antibody</th>
<th>10x DAB Substrate</th>
<th>1x Peroxidase</th>
<th>Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.</th>
</tr>
</thead>
</table>

Ingestion

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Secondary Goat Anti-Mouse Antibody</th>
<th>10x DAB Substrate</th>
<th>1x Peroxidase</th>
<th>Toxic if swallowed.</th>
</tr>
</thead>
</table>

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Secondary Goat Anti-Mouse Antibody</th>
<th>10x DAB Substrate</th>
<th>1x Peroxidase</th>
<th>Adverse symptoms may include the following: pain watering redness</th>
</tr>
</thead>
</table>

Inhalation

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Mouse Anti-Hexon Antibody</th>
<th>Secondary Goat Anti-Mouse Antibody</th>
<th>10x DAB Substrate</th>
<th>1x Peroxidase</th>
<th>Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations</th>
</tr>
</thead>
</table>

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## Section 11. Toxicological information

### Skin contact:
- **Mouse Anti-Hexon Antibody**: No specific data.
- **Secondary Goat Anti-Mouse Antibody**: No specific data.
- **10x DAB Substrate**: Adverse symptoms may include the following:
  - pain or irritation
  - redness
  - blistering may occur
  - reduced foetal weight
  - increase in foetal deaths
  - skeletal malformations
- **1x Peroxidase**: No specific data.

### Ingestion:
- **Mouse Anti-Hexon Antibody**: No specific data.
- **Secondary Goat Anti-Mouse Antibody**: No specific data.
- **10x DAB Substrate**: Adverse symptoms may include the following:
  - stomach pains
  - reduced foetal weight
  - increase in foetal deaths
  - skeletal malformations
- **1x Peroxidase**: No specific data.

### 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**:
  - **Mouse Anti-Hexon Antibody**: No known significant effects or critical hazards.
  - **Secondary Goat Anti-Mouse Antibody**: No known significant effects or critical hazards.
  - **10x DAB Substrate**: May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
  - **1x Peroxidase**: No known significant effects or critical hazards.

- **Carcinogenicity**:
  - **Mouse Anti-Hexon Antibody**: No known significant effects or critical hazards.
  - **Secondary Goat Anti-Mouse Antibody**: No known significant effects or critical hazards.
  - **10x DAB Substrate**: May cause cancer. Risk of cancer depends on duration and level of exposure.
  - **1x Peroxidase**: No known significant effects or critical hazards.

- **Mutagenicity**:
  - **Mouse Anti-Hexon Antibody**: No known significant effects or critical hazards.
  - **Secondary Goat Anti-Mouse Antibody**: No known significant effects or critical hazards.
  - **10x DAB Substrate**: Suspected of causing genetic defects.
  - **1x Peroxidase**: No known significant effects or critical hazards.

- **Teratogenicity**:
  - **Mouse Anti-Hexon Antibody**: No known significant effects or critical hazards.
  - **Secondary Goat Anti-Mouse Antibody**: No known significant effects or critical hazards.
  - **10x DAB Substrate**: May damage the unborn child.
  - **1x Peroxidase**: No known significant effects or critical hazards.
### Section 11. Toxicological information

**Developmental effects**
- Mouse Anti-Hexon Antibody: No known significant effects or critical hazards.
- Secondary Goat Anti-Mouse Antibody: No known significant effects or critical hazards.
- 10x DAB Substrate: No known significant effects or critical hazards.
- 1x Peroxidase: No known significant effects or critical hazards.

**Fertility effects**
- Mouse Anti-Hexon Antibody: No known significant effects or critical hazards.
- Secondary Goat Anti-Mouse Antibody: No known significant effects or critical hazards.
- 10x DAB Substrate: May damage fertility.
- 1x Peroxidase: No known significant effects or critical hazards.

**Numerical measures of toxicity**

#### Acute toxicity estimates

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x DAB Substrate Oral</td>
<td>184.1 mg/kg</td>
</tr>
<tr>
<td>10x DAB Substrate Dermal</td>
<td>666.7 mg/kg</td>
</tr>
<tr>
<td>10x DAB Substrate Inhalation (vapours)</td>
<td>6.667 mg/l</td>
</tr>
<tr>
<td>10x DAB Substrate Inhalation (dusts and mists)</td>
<td>59.3 mg/l</td>
</tr>
</tbody>
</table>

**Other information**
- Mouse Anti-Hexon Antibody: Not available.
- Secondary Goat Anti-Mouse Antibody: Not available.
- 10x DAB Substrate: Adverse symptoms may include the following: Eye contact can result in corneal damage or blindness.
- 1x Peroxidase: Not available.

### 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>Secondary Goat Anti-Mouse Antibody Glycerol</td>
<td>Acute LC50 54000 mg/l Fresh water</td>
<td>Fish - Oncorhynchus mykiss</td>
<td>96 hours</td>
</tr>
<tr>
<td>10x DAB Substrate Ethanediol</td>
<td>Acute LC50 6900000 μg/l Fresh water</td>
<td>Crustaceans - Ceriodaphnia dubia - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 4100000 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 8050000 μg/l Fresh water</td>
<td>Fish - Pimephales promelas</td>
<td>96 hours</td>
</tr>
<tr>
<td>Methanol</td>
<td>Acute LC50 2500000 μg/l Marine water</td>
<td>Crustaceans - Crangon crangon - Adult</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 3289 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna - Neonate</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 290 mg/l Fresh water</td>
<td>Fish - Danio rerio - Egg</td>
<td>96 hours</td>
</tr>
<tr>
<td>Nickel dichloride</td>
<td>Acute EC50 9.96 mg/l Marine water</td>
<td>Algae - Ulva pertusa</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 81.5 μg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata - Exponential growth phase</td>
<td>72 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 210 μg/l Fresh water</td>
<td>Aquatic plants - Lemna minor</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 510 μg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 13 μg/l Fresh water</td>
<td>Crustaceans - Ceriodaphnia dubia</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1300 μg/l Fresh water</td>
<td>Fish - Cyprinus carpio - Juvenile (Fledgling, Hatching, Weanling)</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Chronic NOEC 0.01 mg/l Fresh water</td>
<td>Algae - Pseudokirchneriella subcapitata</td>
<td>96 hours</td>
</tr>
</tbody>
</table>
Section 12. Ecological information

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Aquatic half-life</th>
<th>Photolysis</th>
<th>Biodegradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x DAB Substrate</td>
<td>-</td>
<td>-</td>
<td>Readily</td>
</tr>
<tr>
<td>Ethanediol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and degradability**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Test</th>
<th>Result</th>
<th>Dose</th>
<th>Inoculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td>301D Ready Biodegradability - Closed Bottle Test</td>
<td>93 % - 30 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Glycerol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td>OECD 301C Ready Biodegradability - Modified MITI Test (I)</td>
<td>90 to 100 % - 10 days</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Ethanediol</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>Secondary Goat Anti-Mouse Antibody</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glycerol</td>
<td>-1.76</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>10x DAB Substrate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanediol</td>
<td>-1.36</td>
<td>&lt;10</td>
<td>low</td>
</tr>
<tr>
<td>Methanol</td>
<td>-0.77</td>
<td>5613</td>
<td>high</td>
</tr>
<tr>
<td>Nickel dichloride</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diphenyl-3,3', 4,4'-tetraketraamine</td>
<td>0.09</td>
<td></td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

- Soil/water partition coefficient (K<sub>oc</sub>): 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the
Section 13. Disposal considerations

container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

<table>
<thead>
<tr>
<th>UN number</th>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN3316</td>
<td>UN3316</td>
<td>UN3316</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UN proper shipping name</th>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL KIT</td>
<td>CHEMICAL KIT</td>
<td>Chemical kit</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport hazard class(es)</th>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>9</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Packing group</th>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>II</td>
<td>II</td>
<td>II</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental hazards</th>
<th>ADG</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes. The environmentally hazardous substance mark is not required.</td>
<td>Yes.</td>
<td>Yes. The environmentally hazardous substance mark is not required.</td>
<td></td>
</tr>
</tbody>
</table>

Additional information

ADG : Hazchem code 2Z
      Special provisions 251, 340

IMDG : Yes. The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
      Emergency schedules F-A, _S-P_
      Special provisions 251, 340

IATA : The environmentally hazardous substance mark may appear if required by other transportation regulations.
      Special provisions A44, A163

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 Annex II of Marpol and the IBC Code

Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons
6

Model Work Health and Safety Regulations - Scheduled Substances

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x DAB Substrate methanol</td>
<td>Restricted hazardous chemical [For spray painting if the substance contains more than 1% by volume]</td>
</tr>
<tr>
<td>Cobalt(II) chloride, hexahydrate</td>
<td>Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 0.1% as cobalt]</td>
</tr>
<tr>
<td>Nickel chloride</td>
<td>Restricted hazardous chemical [For abrasive blasting at a concentration of</td>
</tr>
</tbody>
</table>

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Section 15. Regulatory information

International regulations

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

Montreal Protocol (Annexes A, B, C, E)
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: Not determined.
Europe: Not determined.
Japan: Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.
Malaysia: Not determined.
New Zealand: Not determined.
Philippines: Not determined.
Republic of Korea: Not determined.
Taiwan: Not determined.
Thailand: Not determined.
Turkey: Not determined.
United States: Not determined.
Viet Nam: Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision: 31/08/2018
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Key to abbreviations: ADG = Australian Dangerous Goods
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
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification
Section 16. Any other relevant information

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>10x DAB Substrate</td>
<td></td>
</tr>
<tr>
<td>Flam. Liq. 3, H226</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Acute Tox. 3, H301</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute Tox. 3, H311</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute Tox. 3, H331</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Corr. 1, H314</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Eye Dam. 1, H318</td>
<td>On basis of test data</td>
</tr>
<tr>
<td>Resp. Sens. 1, H334</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Skin Sens. 1, H317</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Muta. 2, H341</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Carc. 1A, H350</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Repr. 1B, H360 (Fertility)</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Repr. 1B, H360 (Unborn child)</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT SE 1, H370</td>
<td>Calculation method</td>
</tr>
<tr>
<td>STOT RE 2, H373</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Acute 2, H401</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 2, H411</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

References: Not available.

ший Indicates information that has changed from previously issued version.

Notice to reader

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