

Section 2. Hazards identification

Secondary Goat Anti-Mouse

Antibody

H320 EYE IRRITATION - Category 2B

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 - Category 1
 H318 SERIOUS EYE DAMAGE - Category 1
 H334 RESPIRATORY SENSITIZATION - Category 1
 H317 SKIN SENSITIZATION - Category 1
 H341 GERM CELL MUTAGENICITY - Category 2
 H350 CARCINOGENICITY - Category 1A
 H360 TOXIC TO REPRODUCTION (Fertility) - Category 1B
 H360 TOXIC TO REPRODUCTION (Unborn child) - Category 1B
 H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), kidneys, optic nerve) - Category 1
 H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, heart, thyroid) - Category 1
 H401 AQUATIC HAZARD (ACUTE) - Category 2
 H411 AQUATIC HAZARD (LONG-TERM) - Category 2

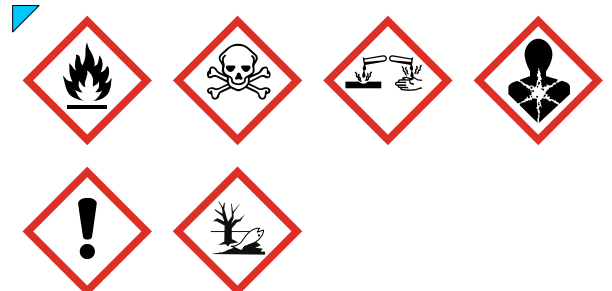
Ingredients of unknown toxicity

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: 30 - 60%
 10x DAB Substrate
 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 oral toxicity: 1 - 10%
 10x DAB Substrate
 Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 1%

2.2 GHS label elements

Hazard pictograms

10x DAB Substrate



Signal word

Mouse Anti-Hexon Antibody
 No signal word.
 Secondary Goat Anti-Mouse Antibody
 Warning
 10x DAB Substrate
 Danger
 1x Peroxidase
 No signal word.

Section 2. Hazards identification

Hazard statements

☑ Mouse Anti-Hexon Antibody
 Secondary Goat Anti-Mouse
 Antibody
 10x DAB Substrate

No known significant effects or critical hazards.
 H320 - Causes eye irritation.

H226 - Flammable liquid and vapor.
 H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.
 H314 - Causes severe skin burns and eye damage.
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 - May cause an allergic skin reaction.
 H350 - May cause cancer.
 H360 - May damage fertility or the unborn child.
 H341 - Suspected of causing genetic defects.
 H370 - Causes damage to organs. (central nervous system (CNS), kidneys, optic nerve)
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H372 - Causes damage to organs through prolonged or repeated exposure. (blood system, heart, thyroid)
 H411 - Toxic to aquatic life with long lasting effects.
 No known significant effects or critical hazards.

1x Peroxidase

Precautionary statements

Prevention

☑ Mouse Anti-Hexon Antibody
 Secondary Goat Anti-Mouse
 Antibody
 10x DAB Substrate

Not applicable.

P264 - Wash hands thoroughly after handling.

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P284 - 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 vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.
 P272 (OSHA) - Contaminated work clothing must not be allowed out of the workplace.
 Not applicable.

1x Peroxidase

Response

☑ Mouse Anti-Hexon Antibody
 Secondary Goat Anti-Mouse
 Antibody

Not applicable.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical attention.

Section 2. Hazards identification

	10x DAB Substrate	<p>P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P307 + P311 - IF exposed: Call a POISON CENTER or physician. P304 + P341 (OSHA) + P310 - IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or physician. P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. 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. P302 + P361+P364 + P352 + P312 + P363 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. P333 + P313 - If skin irritation or rash occurs: Get medical attention. 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 physician.</p>
Storage	<p>1x Peroxidase : Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate</p>	<p>Not applicable. Not applicable. Not applicable.</p>
Disposal	<p>1x Peroxidase : Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate</p>	<p>P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool. Not applicable. Not applicable. Not applicable.</p>
Supplemental label elements	<p>1x Peroxidase : Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase</p>	<p>None known. None known. None known. None known.</p>
<u>2.3 Other hazards</u>		
Hazards not otherwise classified	<p>: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase</p>	<p>None known. None known. None known. None known.</p>

Section 3. Composition/information on ingredients

Substance/mixture	: Mouse Anti-Hexon Antibody	Mixture
	Secondary Goat Anti-Mouse Antibody	Mixture
	10x DAB Substrate	Mixture
	1x Peroxidase	Mixture

Ingredient name	%	CAS number
Mouse Anti-Hexon Antibody Sodium azide	<0.25	26628-22-8
Secondary Goat Anti-Mouse Antibody Glycerol	≥50 - ≤75	56-81-5
10x DAB Substrate Ethenediol	≥25 - ≤50	107-21-1
Methanol	≥25 - ≤50	67-56-1
Cobalt(II) chloride, hexahydrate	≤2.2	7791-13-1
Nickel dichloride	≤2.2	7718-54-9
Biphenyl-3,3', 4,4'-tetrayltetraamine	≤3	91-95-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

4.1 Description of necessary first aid measures

Eye contact	: Mouse Anti-Hexon Antibody	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.
	Secondary Goat Anti-Mouse Antibody	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. If irritation persists, get medical attention.
	10x DAB Substrate	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.
	1x Peroxidase	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.
Inhalation	: Mouse Anti-Hexon Antibody	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Secondary Goat Anti-Mouse Antibody	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give

Section 4. First aid measures

	10x DAB Substrate	mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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. 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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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	Wash out mouth with water. Remove dentures if

Section 4. First aid measures

Antibody

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

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. 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.

1x Peroxidase

4.2 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.
Causes eye irritation.

Causes serious eye damage.

No known significant effects or critical hazards.

Inhalation

: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate



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

Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

1x Peroxidase

No known significant effects or critical hazards.

Section 4. First aid measures

Skin contact	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction. No known significant effects or critical hazards.
Ingestion	:  Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. Toxic if swallowed. Can cause central nervous system (CNS) depression. No known significant effects or critical hazards.
<u>Over-exposure signs/symptoms</u>		
Eye contact	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No specific data. Adverse symptoms may include the following: irritation watering redness Adverse symptoms may include the following: pain watering redness
Inhalation	:  Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No specific data. No specific data. No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations No specific data.
Skin contact	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations No specific data.

Section 4. First aid measures

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

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

Notes to physician	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. 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. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Section 5. Fire-fighting measures

<p>Suitable extinguishing media</p>	<p>: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase</p>	<p>Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO₂, water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.</p>
<p>Unsuitable extinguishing media</p>	<p>: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase</p>	<p>None known. None known. Do not use water jet. None known.</p>
<p><u>5.2 Special hazards arising from the substance or mixture</u></p>		
<p>Specific hazards arising from the chemical</p>	<p>: <input checked="" type="checkbox"/> Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase</p>	<p>In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. Flammable liquid and vapor. 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. In a fire or if heated, a pressure increase will occur and the container may burst.</p>
<p>Hazardous thermal decomposition products</p>	<p>: <input checked="" type="checkbox"/> Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase</p>	<p>No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides Formaldehyde. Decomposition products may include the following materials: carbon dioxide carbon monoxide</p>
<p><u>5.3 Advice for firefighters</u></p>		
<p>Special protective actions for fire-fighters</p>	<p>: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate</p>	<p>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. 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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No</p>

Section 5. Fire-fighting measures

	1x Peroxidase	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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: 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.

Section 6. Accidental release measures

6.1 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 spilled 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor 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 spilled material. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

<p>For emergency responders :</p> <p>Mouse Anti-Hexon Antibody</p> <p>Secondary Goat Anti-Mouse Antibody</p> <p>10x DAB Substrate</p> <p>1x Peroxidase</p>	<p>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". 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". 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". 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".</p>
<p>6.2 Environmental precautions :</p> <p>Mouse Anti-Hexon Antibody</p> <p>Secondary Goat Anti-Mouse Antibody</p> <p>10x DAB Substrate</p> <p>1x Peroxidase</p>	<p>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).</p> <p>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).</p> <p>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.</p> <p>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).</p>
<p>6.3 Methods and materials for containment and cleaning up</p> <p>Methods for cleaning up :</p> <p>Mouse Anti-Hexon Antibody</p> <p>Secondary Goat Anti-Mouse Antibody</p> <p>10x DAB Substrate</p>	<p>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.</p> <p>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.</p> <p>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</p>

Section 6. Accidental release measures

1x Peroxidase

sodium hydroxide. Dispose of via a licensed waste disposal contractor.

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

7.1 Precautions for safe handling

Protective measures

: Mouse Anti-Hexon Antibody

Put on appropriate personal protective equipment (see Section 8).

Secondary Goat Anti-Mouse Antibody

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 DAB Substrate

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization 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 vapor 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.

1x Peroxidase

Put on appropriate personal protective equipment (see Section 8).

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

Section 7. Handling and storage

	<p>10x DAB Substrate</p> <p>1x Peroxidase</p>	<p>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. 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. 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.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	<p>:  Mouse Anti-Hexon Antibody</p> <p>Secondary Goat Anti-Mouse Antibody</p> <p>10x DAB Substrate</p>	<p>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.</p> <p>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.</p>
	<p>10x DAB Substrate</p> <p>1x Peroxidase</p>	<p>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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p> <p>Store between the following temperatures: 2 to 8°C</p>

Section 7. Handling and storage

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

7.3 Specific end use(s)

Recommendations

: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase

Industrial applications, Professional applications.
Industrial applications, Professional applications.

Industrial applications, Professional applications.
Industrial applications, Professional applications.

Industrial sector specific solutions

: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate
1x Peroxidase

Not applicable.
Not applicable.

Not applicable.
Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Mouse Anti-Hexon Antibody Sodium azide	ACGIH TLV (United States, 3/2017). C: 0.29 mg/m ³ , (as Sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor) OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (as NaN3) NIOSH REL (United States, 10/2016). Absorbed through skin. CEIL: 0.1 ppm, (as HN3) CEIL: 0.3 mg/m ³ , (NAN3)
Secondary Goat Anti-Mouse Antibody Glycerol	OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 10 mg/m ³ 8 hours. Form: Total dust OSHA PEL (United States, 6/2016). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust
10x DAB Substrate EthanedioI	OSHA PEL 1989 (United States, 3/1989). CEIL: 50 ppm

Section 8. Exposure controls/personal protection

Methanol	<p>CEIL: 125 mg/m³ ACGIH TLV (United States, 3/2017). STEL: 10 mg/m³ 15 minutes. Form: Inhalable fraction. Aerosol only. STEL: 50 ppm 15 minutes. Form: Vapor fraction TWA: 25 ppm 8 hours. Form: Vapor fraction ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 262 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 328 mg/m³ 15 minutes. OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). Absorbed through skin. TWA: 200 ppm 10 hours. TWA: 260 mg/m³ 10 hours. STEL: 250 ppm 15 minutes. STEL: 325 mg/m³ 15 minutes. OSHA PEL (United States, 6/2016). TWA: 200 ppm 8 hours. TWA: 260 mg/m³ 8 hours.</p>
Cobalt(II) chloride, hexahydrate	<p>ACGIH TLV (United States, 3/2017). TWA: 0.02 mg/m³, (as Co) 8 hours.</p>
Nickel dichloride	<p>NIOSH REL (United States, 10/2016). TWA: 0.015 mg/m³, (as Ni) 10 hours. ACGIH TLV (United States, 3/2017). TWA: 0.1 mg/m³, (as Ni) 8 hours. Form: Inhalable fraction OSHA PEL (United States, 6/2016). TWA: 1 mg/m³, (as Ni) 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 0.1 mg/m³, (as Ni) 8 hours. Form: Soluble</p>
Biphenyl-3,3', 4,4'-tetrayltetraamine	None.

8.2 Exposure controls

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, vapor 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

Section 8. Exposure controls/personal protection

- 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. Contaminated work clothing should not be allowed out of the workplace. 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. 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Mouse Anti-Hexon Antibody	Liquid.
	: Secondary Goat Anti-Mouse Antibody	Liquid.
	: 10x DAB Substrate	Liquid.
	: 1x Peroxidase	Liquid. [Clear sparkling liquid.]
Color	: Mouse Anti-Hexon Antibody	Not available.
	: Secondary Goat Anti-Mouse Antibody	Not available.
	: 10x DAB Substrate	Purple.
	: 1x Peroxidase	Colorless.
Odor	: Mouse Anti-Hexon Antibody	Not available.
	: Secondary Goat Anti-Mouse Antibody	Not available.
	: 10x DAB Substrate	Alcohol-like.
	: 1x Peroxidase	Not available.
Odor threshold	: Mouse Anti-Hexon Antibody	Not available.
	: Secondary Goat Anti-Mouse Antibody	Not available.
	: 10x DAB Substrate	Not available.
	: 1x Peroxidase	Not available.

Section 9. Physical and chemical properties

pH	: Mouse Anti-Hexon Antibody	7.2
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	1.5 to 2
Melting point	1x Peroxidase	5 to 5.2
	: Mouse Anti-Hexon Antibody	0°C (32°F)
	Secondary Goat Anti-Mouse Antibody	Not available.
Boiling point	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
	: Mouse Anti-Hexon Antibody	100°C (212°F)
Flash point	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
Evaporation rate	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
Flammability (solid, gas)	1x Peroxidase	Not available.
	: Mouse Anti-Hexon Antibody	Not applicable.
	Secondary Goat Anti-Mouse Antibody	Not applicable.
Lower and upper explosive (flammable) limits	10x DAB Substrate	Not applicable.
	1x Peroxidase	Not applicable.
	: Mouse Anti-Hexon Antibody	Not available.
Vapor pressure	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
Vapor density	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
Relative density	1x Peroxidase	Not available.
	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.

Section 9. Physical and chemical properties

Solubility	: Mouse Anti-Hexon Antibody	Easily soluble in the following materials: cold water and hot water.
	Secondary Goat Anti-Mouse Antibody	Soluble in the following materials: cold water and hot water.
	10x DAB Substrate	Easily soluble in the following materials: cold water and hot water.
	1x Peroxidase	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
Auto-ignition temperature	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
Decomposition temperature	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
Viscosity	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: Mouse Anti-Hexon Antibody	No specific test data related to reactivity available for this product or its ingredients.
	Secondary Goat Anti-Mouse Antibody	No specific test data related to reactivity available for this product or its ingredients.
	10x DAB Substrate	No specific test data related to reactivity available for this product or its ingredients.
	1x Peroxidase	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Mouse Anti-Hexon Antibody	The product is stable.
	Secondary Goat Anti-Mouse Antibody	The product is stable.
	10x DAB Substrate	The product is stable.
	1x Peroxidase	The product is stable.
10.3 Possibility of hazardous reactions	: Mouse Anti-Hexon Antibody	Under normal conditions of storage and use, hazardous reactions will not occur.
	Secondary Goat Anti-Mouse Antibody	Under normal conditions of storage and use, hazardous reactions will not occur.
	10x DAB Substrate	Under normal conditions of storage and use, hazardous reactions will not occur.
	1x Peroxidase	Under normal conditions of storage and use, hazardous reactions will not occur.

Section 10. Stability and reactivity

10.4 Conditions to avoid	<p>: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate</p> <p>1x Peroxidase</p>	<p>No specific data. No specific data.</p> <p>Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. No specific data.</p>
10.5 Incompatible materials	<p>: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate</p> <p>1x Peroxidase</p>	<p>May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis oxidizing materials May react or be incompatible with oxidizing materials.</p>
10.6 Hazardous decomposition products	<p>: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase</p>	<p>Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p>

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Mouse Anti-Hexon Antibody Sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
Secondary Goat Anti-Mouse Antibody Glycerol	LD50 Oral	Rat	12600 mg/kg	-
10x DAB Substrate Ethanediol Methanol	LD50 Oral	Rat	4700 mg/kg	-
	LC50 Inhalation Vapor	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Section 11. Toxicological information

Cobalt(II) chloride, hexahydrate	LD50 Oral	Rat	766 mg/kg	-
Nickel dichloride	LC50 Inhalation Dusts and mists	Rat - Male	0.593 mg/l	4 hours

Irritation/Corrosion

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

Sensitization

Not available.

Mutagenicity**Conclusion/Summary** : Not available.**Carcinogenicity****Conclusion/Summary** : Not available.**Classification**

Product/ingredient name	OSHA	IARC	NTP
10x DAB Substrate Cobalt(II) chloride, hexahydrate	-	2B	Reasonably anticipated to be a human carcinogen.
Nickel dichloride	-	1	-

Reproductive toxicity**Conclusion/Summary** : Not available.**Teratogenicity****Conclusion/Summary** : Not available.**Specific target organ toxicity (single exposure)**

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
10x DAB Substrate Ethanediol	Category 2 Category 3	Oral Not applicable.	kidneys Respiratory tract irritation
Methanol	Category 1 Category 3	Not determined Not applicable.	central nervous system (CNS) and optic nerve Respiratory tract irritation and Narcotic effects
Nickel dichloride	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Mouse Anti-Hexon Antibody Sodium azide	Category 2	Not determined	cardiovascular system, central nervous system (CNS) and lungs
10x DAB Substrate Cobalt(II) chloride, hexahydrate	Category 2	Not determined	blood system, heart and thyroid
Nickel dichloride	Category 1	Not determined	Not determined

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Mouse Anti-Hexon Antibody
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate

1x Peroxidase

Not available.
Routes of entry anticipated: Oral, Dermal, Inhalation.
Routes of entry anticipated: Oral, Dermal, Inhalation.
Not available.

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.
Causes eye irritation.

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

Inhalation

: **Mouse Anti-Hexon Antibody**
Secondary Goat Anti-Mouse Antibody
10x DAB Substrate

1x Peroxidase

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

Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

No known significant effects or critical hazards.

Section 11. Toxicological information

Skin contact	: 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	Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.
	1x Peroxidase	No known significant effects or critical hazards.
Ingestion	: 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	Toxic if swallowed. Can cause central nervous system (CNS) depression.
	1x Peroxidase	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Mouse Anti-Hexon Antibody	No specific data.
	Secondary Goat Anti-Mouse Antibody	Adverse symptoms may include the following:
	10x DAB Substrate	irritation watering redness
	1x Peroxidase	Adverse symptoms may include the following: pain watering redness
Inhalation	: Mouse Anti-Hexon Antibody	No specific data.
	Secondary Goat Anti-Mouse Antibody	No specific data.
	10x DAB Substrate	Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
	1x Peroxidase	No specific data.
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 fetal weight increase in fetal deaths skeletal malformations
	1x Peroxidase	No specific data.

Section 11. Toxicological information

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

Delayed and immediate effects and also 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 Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards.
Carcinogenicity	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards.
Mutagenicity	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. Suspected of causing genetic defects. No known significant effects or critical hazards.
Teratogenicity	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. May damage the unborn child. No known significant effects or critical hazards.
Developmental effects	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. May damage fertility. No known significant effects or critical hazards.

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
10x DAB Substrate	
Oral	181.2 mg/kg
Dermal	346.7 mg/kg
Inhalation (vapors)	3.533 mg/l
Inhalation (dusts and mists)	31.43 mg/l

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

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Mouse Anti-Hexon Antibody Sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - Daphnia pulex - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - Macrocyctis pyrifera	96 hours
Secondary Goat Anti-Mouse Antibody Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
10x DAB Substrate Ethanediol	Acute LC50 6900000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 41000000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Methanol	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
Nickel dichloride	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 81.5 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 210 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute EC50 510 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 13 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 1300 µg/l Fresh water	Fish - Cyprinus carpio - Juvenile	96 hours

Section 12. Ecological information

	Chronic NOEC 0.01 mg/l Fresh water	(Fledgling, Hatchling, Weanling) Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 0.5 mg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Chronic NOEC 200 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 466 µg/l Fresh water	Fish - Oncorhynchus mykiss - Embryo	55 days

12.2 Persistence and degradability

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
10x DAB Substrate Ethanediol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Secondary Goat Anti-Mouse Antibody Glycerol	-1.76	-	low
10x DAB Substrate Ethanediol	-1.36	-	low
Methanol	-0.77	<10	low
Nickel dichloride	-	5613	high
Biphenyl-3,3', 4,4'-tetrayltetraamine	0.09	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Toxic hazardous waste "U" List


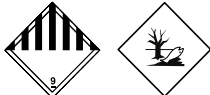

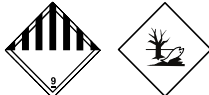

Ingredient	CAS #	Status	Reference number
10x DAB Substrate Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN3316	UN3316	UN3316	UN3316	UN3316
UN proper shipping name	Chemical kits	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9 	9 	9 	9 
Packing group	II	II	II	II	II
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Section 14. Transport information

- DOT Classification** : **Reportable quantity** 40000 lbs / 18160 kg. The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials.
Limited quantity Yes.
Packaging instruction Exceptions: 161. Non-bulk: 161. Bulk: None.
Quantity limitation Passenger aircraft/rail: 10 kg. Cargo aircraft: 10 kg.
Special provisions 15
- 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). The marine pollutant mark is not required when transported by road or rail.
- Mexico Classification** : **Special provisions** 251, 340
- IMDG** : The marine pollutant 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.
Quantity limitation Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.
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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined
Clean Water Act (CWA) 307: Nickel dichloride
Clean Water Act (CWA) 311: sodium monohydrogen phosphate, heptahydrate; Nickel dichloride
- Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed
- Clean Air Act Section 602 Class I Substances** : Not listed
- Clean Air Act Section 602 Class II Substances** : Not listed
- DEA List I Chemicals (Precursor Chemicals)** : Not listed
- DEA List II Chemicals (Essential Chemicals)** : Not listed
- SARA 302/304**

Section 15. Regulatory information

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Mouse Anti-Hexon Antibody Sodium azide	<0.25	Yes.	500	-	1000	-

SARA 304 RQ : 4000000 lbs / 1816000 kg

SARA 311/312

Classification

Mouse Anti-Hexon Antibody : Not applicable.
Secondary Goat Anti-Mouse Antibody : EYE IRRITATION - Category 2B
Antibody
10x DAB Substrate : FLAMMABLE LIQUIDS - Category 3
 ACUTE TOXICITY (oral) - Category 3
 ACUTE TOXICITY (dermal) - Category 3
 ACUTE TOXICITY (inhalation) - Category 3
 SKIN CORROSION - Category 1
 SERIOUS EYE DAMAGE - Category 1
 RESPIRATORY SENSITIZATION - Category 1
 SKIN SENSITIZATION - Category 1
 GERM CELL MUTAGENICITY - Category 2
 CARCINOGENICITY - Category 1A
 TOXIC TO REPRODUCTION (Fertility) - Category 1B
 TOXIC TO REPRODUCTION (Unborn child) - Category 1B
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), kidneys, optic nerve) - Category 1
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, heart, thyroid) - Category 1
 Not applicable.

1x Peroxidase

Composition/information on ingredients

Name	%	Classification
Secondary Goat Anti-Mouse Antibody Glycerol	≥50 - ≤75	EYE IRRITATION - Category 2A
10x DAB Substrate Ethanediol	≥25 - ≤50	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (kidneys) (oral) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Methanol	≥25 - ≤50	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), optic nerve) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Cobalt(II) chloride, hexahydrate	≤2.2	ACUTE TOXICITY (oral) - Category 4 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2

Section 15. Regulatory information

Nickel dichloride	≤2.2	CARCINOGENICITY (inhalation) - Category 1B TOXIC TO REPRODUCTION (Fertility) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, heart, thyroid) - Category 2 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION (Unborn child) - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Biphenyl-3,3', 4,4'-tetrayltetraamine	≤3	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 1B

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	10x DAB Substrate		
	Ethanediol	107-21-1	≥25 - ≤50
	Methanol	67-56-1	≥25 - ≤50
	Cobalt(II) chloride, hexahydrate	7791-13-1	≤2.2
Supplier notification	10x DAB Substrate		
	Ethanediol	107-21-1	≥25 - ≤50
	Methanol	67-56-1	≥25 - ≤50
	Cobalt(II) chloride, hexahydrate	7791-13-1	≤2.2
	Nickel dichloride	7718-54-9	≤2.2

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts

: The following components are listed: METHANOL; METHYL ALCOHOL; ETHYLENE GLYCOL; 1,2-DIHYDROXYETHANE; GLYCERINE MIST

New York

: The following components are listed: Nickel chloride; Methanol; Ethylene glycol

New Jersey

: The following components are listed: NICKEL CHLORIDE; COBALT compounds; METHYL ALCOHOL; METHANOL; ETHYLENE GLYCOL; 1,2-ETHANEDIOL; GLYCERIN; 1,2,3-PROPANETRIOL

Pennsylvania

: The following components are listed: NICKEL CHLORIDE; COBALT COMPOUNDS; METHANOL; 1,2-ETHANEDIOL; 1,2,3-PROPANETRIOL

California Prop. 65

⚠ WARNING: This product can expose you to chemicals including Nickel compounds, which is known to the State of California to cause cancer, and Ethylene Glycol, Methanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
10x DAB Substrate		
Ethylene Glycol	-	Yes.
Methanol	-	Yes.
Nickel compounds	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Section 15. Regulatory information

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	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

[History](#)

Date of issue	: 08/31/2018
Date of previous issue	: 01/24/2017
Version	: 5

[Procedure used to derive the classification](#)

Classification	Justification
<input checked="" type="checkbox"/> Secondary Goat Anti-Mouse Antibody EYE IRRITATION - Category 2B 10x DAB Substrate FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2	Calculation method On basis of test data Calculation method Calculation method Calculation method On basis of test data On basis of test data Calculation method Calculation method Calculation method

Section 16. Other information

CARCINOGENICITY - Category 1A	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 1B	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS), kidneys, optic nerve) - Category 1	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, heart, thyroid) - Category 1	Calculation method
AQUATIC HAZARD (ACUTE) - Category 2	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 2	Calculation method

Indicates information that has changed from previously issued version.

[Notice to reader](#)

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