

# SAFETY DATA SHEET



AdEasy Viral Titer Kit, Part Number 972500

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

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

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

<b>Material uses</b>	:	Analytical reagent.
	:	<input checked="" type="checkbox"/> 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

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	:	<input checked="" type="checkbox"/> Mouse Anti-Hexon Antibody Mixture
	:	Secondary Goat Anti-Mouse Antibody Mixture
	:	10x DAB Substrate Mixture
	:	1x Peroxidase Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

##### 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
H334	RESPIRATORY SENSITISATION - Category 1
H317	SKIN SENSITISATION - Category 1
H341	GERM CELL MUTAGENICITY - Category 2
H350	CARCINOGENICITY - Category 1A

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## SECTION 2: Hazards identification

H360D	REPRODUCTIVE TOXICITY (Unborn child) - Category 1B
H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
H372	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - 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%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :  10x DAB Substrate



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

**Hazard statements** :  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 H226 - Flammable liquid and vapour.  
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.  
H360D - May damage the unborn child.  
H341 - Suspected of causing genetic defects.  
H370 - Causes damage to organs.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H411 - Toxic to aquatic life with long lasting effects.  
 1x Peroxidase No known significant effects or critical hazards.

### 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.  
P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 - Avoid release to the environment.  
P260 - Do not breathe vapour.  
 1x Peroxidase Not applicable.

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<b>Response</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate	Not applicable.  Not applicable.  P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or physician. P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician.
<b>Storage</b>	: 1x Peroxidase Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	Not applicable.  Not applicable.  P405 - Store locked up. Not applicable.
<b>Disposal</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate  1x Peroxidase	Not applicable.  Not applicable.  P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable.
<b>Hazardous ingredients</b>	: 10x DAB Substrate	- methanol - Cobalt(II) chloride, hexahydrate - nickel dichloride - biphenyl-3,3', 4,4'-tetrayltetraamine
<b>Supplemental label elements</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	Not applicable.  Not applicable.  Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	Not applicable.  Not applicable.  Restricted to professional users. Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	Not applicable.  Not applicable.  Not applicable. Not applicable.
<b>2.3 Other hazards</b>		
<b>Other hazards which do not result in classification</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	None known.  None known.  None known. None known.

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### SECTION 3: Composition/information on ingredients

**3.1 Substances** :  Mouse Anti-Hexon Antibody Mixture  
 Secondary Goat Anti-Mouse Antibody Mixture  
 10x DAB Substrate Mixture  
 1x Peroxidase Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<input checked="" type="checkbox"/> Secondary Goat Anti-Mouse Antibody				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	[2]
<b>10x DAB Substrate</b>				
Ethanediol	EC: 203-473-3 CAS: 107-21-1 Index: 603-027-00-1	≥25 - ≤50	Acute Tox. 4, H302	[1] [2]
Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥25 - ≤50	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	[1] [2]
Cobalt(II) chloride, hexahydrate	EC: 231-589-4 CAS: 7791-13-1 Index: 027-004-00-5	≤1.2	Acute Tox. 4, H302 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350i (inhalation) Repr. 1B, H360F (Fertility)	[1] [2]
Nickel dichloride	EC: 231-743-0 CAS: 7718-54-9 Index: 028-011-00-6	≤3	Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) Acute Tox. 3, H301 Acute Tox. 3, H331 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350i (inhalation) Repr. 1B, H360D (Unborn child) STOT RE 1, H372	[1] [2]
Biphenyl-3,3', 4,4'-tetrayltetraamine	EC: 202-110-6 CAS: 91-95-2 Index: 612-239-00-3	≤3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) Muta. 2, H341 Carc. 1B, H350	[1]
			<b>See Section 16 for the full text of the H statements declared above.</b>	

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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: 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. Get medical attention if irritation occurs.
	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.
<b>Inhalation</b>	: 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. Get medical attention if symptoms occur.
	10x DAB Substrate	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.
<b>Skin contact</b>	: 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.

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<b>Ingestion</b>	: 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 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.
<b>Protection of first-aiders</b>	: Mouse Anti-Hexon Antibody	No action shall be taken involving any personal risk or without suitable training.
	Secondary Goat Anti-Mouse Antibody	No action shall be taken involving any personal risk or without suitable training.
	10x DAB Substrate	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.
	1x Peroxidase	No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: 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 serious eye damage.
	1x Peroxidase	No known significant effects or critical hazards.

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<b>Inhalation</b>	: 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 inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	1x Peroxidase	No known significant effects or critical hazards.
<b>Skin contact</b>	: 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.
<b>Ingestion</b>	: 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.
	1x Peroxidase	No known significant effects or critical hazards.
<b><u>Over-exposure signs/symptoms</u></b>		
<b>Eye contact</b>	: 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 watering redness
	1x Peroxidase	No specific data.
<b>Inhalation</b>	: Mouse Anti-Hexon Antibody	No specific data.
	Secondary Goat Anti-Mouse Antibody	No specific data.
	10x DAB Substrate	Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations
	1x Peroxidase	No specific data.
<b>Skin contact</b>	: 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.
<b>Ingestion</b>	: 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

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	increase in foetal deaths skeletal malformations No specific data.
1x Peroxidase	

### 4.3 Indication of any immediate medical attention and special treatment needed



<b>Notes to physician</b>	: 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.
<b>Specific treatments</b>	: 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.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	None known. None known. Do not use water jet. None known.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazards from the substance or mixture</b>	:  Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate  1x Peroxidase	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 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. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	:  Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody  10x DAB Substrate	No specific data. Decomposition products may include the following materials:  carbon dioxide carbon monoxide Decomposition products may include the following materials:



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carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides  
Formaldehyde.  
Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

1x Peroxidase

### 5.3 Advice for firefighters

#### Special precautions for fire-fighters

: Mouse Anti-Hexon Antibody

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.

Secondary Goat Anti-Mouse Antibody

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

10x DAB Substrate

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.

1x Peroxidase

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## 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 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.

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	10x DAB Substrate	Do not touch or walk through spilt material. Put on appropriate personal protective equipment. 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.
<b>For emergency responders</b>	: 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 suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	1x Peroxidase	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".
<b>6.2 Environmental precautions</b>	: 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).
<b>6.3 Methods and material for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: 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,

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10x DAB Substrate	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. 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.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). 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.
	1x Peroxidase	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: Mouse Anti-Hexon Antibody  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. 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.

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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.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

: 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.

#### Danger criteria

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## SECTION 7: Handling and storage

Category	Notification and MAPP threshold	Safety report threshold
10x DAB Substrate		
H2	50	200
H3	50	200
P5c	5000	50000
E2	200	500

### 7.3 Specific end use(s)

<b>Recommendations</b>	: Mouse Anti-Hexon Antibody	Industrial applications, Professional applications.
	: Secondary Goat Anti-Mouse Antibody	Industrial applications, Professional applications.
	: 10x DAB Substrate	Industrial applications, Professional applications.
	: 1x Peroxidase	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: Mouse Anti-Hexon Antibody	Not applicable.
	: Secondary Goat Anti-Mouse Antibody	Not applicable.
	: 10x DAB Substrate	Not applicable.
	: 1x Peroxidase	Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
Secondary Goat Anti-Mouse Antibody Glycerol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011).</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Mist
10x DAB Substrate Ethanediol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: Particulate STEL: 104 mg/m <sup>3</sup> 15 minutes. Form: Vapour TWA: 52 mg/m <sup>3</sup> 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour TWA: 20 ppm 8 hours. Form: Vapour
Methanol	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin.</b> STEL: 333 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.
Cobalt(II) chloride, hexahydrate	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Inhalation sensitiser.</b> TWA: 0.1 mg/m <sup>3</sup> , (as Co) 8 hours.
Nickel dichloride	<b>EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. Inhalation sensitiser.</b> TWA: 0.1 mg/m <sup>3</sup> , (as Ni) 8 hours.

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## SECTION 8: Exposure controls/personal protection

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### DNELs/DMELs

No DNELs/DMELs available.

### PNECs

No PNECs available

## 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, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### 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. 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. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

**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.

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## SECTION 8: Exposure controls/personal protection

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: Mouse Anti-Hexon Antibody	Liquid.
	Secondary Goat Anti-Mouse Antibody	Liquid.
	10x DAB Substrate	Liquid.
	1x Peroxidase	Liquid. [Clear sparkling liquid.]
<b>Colour</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Purple.
	1x Peroxidase	Colourless.
<b>Odour</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Alcohol-like.
	1x Peroxidase	Not available.
<b>Odour threshold</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>pH</b>	: 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
<b>Melting point/freezing point</b>	: Mouse Anti-Hexon Antibody	0°C
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Initial boiling point and boiling range</b>	: Mouse Anti-Hexon Antibody	100°C
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Flash point</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Closed cup: <30°C
	1x Peroxidase	Not available.

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## SECTION 9: Physical and chemical properties

<b>Evaporation rate</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Flammability (solid, gas)</b>	: Mouse Anti-Hexon Antibody	Not applicable.
	Secondary Goat Anti-Mouse Antibody	Not applicable.
	10x DAB Substrate	Not applicable.
	1x Peroxidase	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Vapour pressure</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Vapour density</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Relative density</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Solubility(ies)</b>	: 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.
<b>Partition coefficient: n-octanol/water</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Auto-ignition temperature</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.



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## SECTION 9: Physical and chemical properties

<b>Decomposition temperature</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Viscosity</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Explosive properties</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.
<b>Oxidising properties</b>	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	Not available.
	1x Peroxidase	Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: 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.
<b>10.2 Chemical stability</b>	: 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.
<b>10.3 Possibility of hazardous reactions</b>	: 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.

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## SECTION 10: Stability and reactivity

<b>10.4 Conditions to avoid</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate  1x Peroxidase	No specific data.  No specific data.  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. No specific data.
<b>10.5 Incompatible materials</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate  1x Peroxidase	May react or be incompatible with oxidising materials.  May react or be incompatible with oxidising 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 oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate  1x Peroxidase	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.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>10x DAB Substrate</b>				
Ethanediol	LD50 Oral	Rat	4700 mg/kg	-
Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
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

#### Acute toxicity estimates

Route	ATE value
<b>Mouse Anti-Hexon Antibody</b> Oral	27000 mg/kg
<b>10x DAB Substrate</b> Oral	181.7 mg/kg
Dermal	666.7 mg/kg
Inhalation (vapours)	6.667 mg/l
Inhalation (dusts and mists)	59.3 mg/l

#### Irritation/Corrosion

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## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
10x DAB Substrate Ethanediol    Methanol	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	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	- -	40 milligrams 24 hours 20 milligrams	- -

### Sensitiser

**Conclusion/Summary** : 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)

Product/ingredient name	Category	Route of exposure	Target organs
10x DAB Substrate Methanol	Category 1	Not determined	Not determined

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
10x DAB Substrate Nickel dichloride	Category 1	Not determined	Not determined

### Aspiration hazard

Not available.

### Information on likely routes of exposure

Mouse Anti-Hexon Antibody	Not available.
Secondary Goat Anti-Mouse Antibody	Routes of entry anticipated: Oral, Dermal, Inhalation.
10x DAB Substrate	Routes of entry anticipated: Oral, Dermal, Inhalation.
1x Peroxidase	Not available.

### Potential acute health effects

<b>Inhalation</b>	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 inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	1x Peroxidase	No known significant effects or critical hazards.

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## SECTION 11: Toxicological information

<b>Ingestion</b>	: 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.
	1x Peroxidase	No known significant effects or critical hazards.
<b>Skin contact</b>	: 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.
<b>Eye contact</b>	: 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 serious eye damage.
	1x Peroxidase	No known significant effects or critical hazards.

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

<b>Inhalation</b>	: Mouse Anti-Hexon Antibody	No specific data.
	Secondary Goat Anti-Mouse Antibody	No specific data.
	10x DAB Substrate	Adverse symptoms may include the following: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations
	1x Peroxidase	No specific data.
<b>Ingestion</b>	: 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.
<b>Skin contact</b>	: 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.
<b>Eye contact</b>	: 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 watering
	1x Peroxidase	No specific data.

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## SECTION 11: Toxicological information

1x Peroxidase redness  
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

<b>General</b>	: 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 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.
<b>Carcinogenicity</b>	: 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.
<b>Mutagenicity</b>	: 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.
<b>Teratogenicity</b>	: 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.
<b>Developmental effects</b>	: 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.
<b>Fertility effects</b>	: 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.

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## SECTION 11: Toxicological information

<b>Other information</b>	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate  1x Peroxidase	Not available. Not available. Adverse symptoms may include the following: Eye contact can result in corneal damage or blindness. Not available.
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## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
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
Nickel dichloride	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	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 (Fledgling, Hatchling, Weanling)	96 hours
Chronic NOEC 0.01 mg/l Fresh water	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
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

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## SECTION 12: Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>10x DAB Substrate</b>			
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<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

**PBT** : Not applicable.

**vPvB** : Not applicable.

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

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : 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.






**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : 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 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

	ADR/RID	IMDG	IATA
<b>14.1 UN number</b>	UN3316	UN3316	UN3316
<b>14.2 UN proper shipping name</b>	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
<b>14.3 Transport hazard class(es)</b>	9  	9  	9 

**Date of issue/Date of revision** : 31/08/2018

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## SECTION 14: Transport information

14.4 Packing group	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

### Additional information

- ADR/RID** : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  
**Hazard identification number** 90  
**Limited quantity** See SP 251  
**Special provisions** 251, 340  
**Tunnel code** (E)
- 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
- 14.6 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.
- 14.7 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

#### EU Regulation (EC) No. 1907/2006 (REACH)

##### Annex XIV - List of substances subject to authorisation

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
<b>10x DAB Substrate</b> Cobalt(II) chloride, hexahydrate	Carcinogen	Recommended	ED/67/2008, ED/31/2011	12/20/2011
-	Toxic to reproduction	Recommended	ED/67/2008, ED/31/2011	12/20/2011

- Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Mouse Anti-Hexon Antibody Not applicable.  
 Secondary Goat Anti-Mouse Antibody Not applicable.  
 10x DAB Substrate Restricted to professional users.  
 1x Peroxidase Not applicable.

### Other EU regulations

#### Ozone depleting substances (1005/2009/EU)

Not listed.



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## SECTION 15: Regulatory information

### Prior Informed Consent (PIC) (649/2012/EU)

Ingredient name	Annex	Status
<b>10x DAB Substrate</b> Benzidine, its salts and benzidine derivatives -	Annex I - Part 1 Annex I - Part 2	Listed Listed

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

Category
<b>10x DAB Substrate</b> H2 H3 P5c E2

### National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
<b>10x DAB Substrate</b> Cobalt(II) chloride, hexahydrate	UK Occupational Exposure Limits EH40 - WEL	cobalt compounds	Carc.	-
nickel dichloride	UK Occupational Exposure Limits EH40 - WEL	inorganic nickel compounds Soluble in water	Carc.	-

### 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

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <b>Japan inventory (ENCS):</b> Not determined. <b>Japan inventory (ISHL):</b> Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.

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## SECTION 15: Regulatory information

Turkey : Not determined.  
 United States : Not determined.  
 Viet Nam :  Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
<b>10x DAB Substrate</b> Flam. Liq. 3, H226 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1, H314 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 Repr. 1B, H360D (Unborn child) STOT SE 1, H370 STOT RE 1, H372 Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

### Full text of abbreviated H statements

<input checked="" type="checkbox"/> <b>10x DAB Substrate</b> H225 H226 H301 H302 H311 H314 H315 H317 H331 H334  H341 H350 H350i (inhalation) H360D H360F H370 H372 H400 H410 H411	Highly flammable liquid and vapour. Flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.  Suspected of causing genetic defects. May cause cancer. May cause cancer by inhalation. May damage the unborn child. May damage fertility. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.
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### Full text of classifications [CLP/GHS]

**Date of issue/Date of revision** : 31/08/2018

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**SECTION 16: Other information**

**10x DAB Substrate**

Acute Tox. 3, H301	ACUTE TOXICITY (oral) - Category 3
Acute Tox. 3, H311	ACUTE TOXICITY (dermal) - Category 3
Acute Tox. 3, H331	ACUTE TOXICITY (inhalation) - Category 3
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Aquatic Acute 1, H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Carc. 1A, H350	CARCINOGENICITY - Category 1A
Carc. 1A, H350i (inhalation)	CARCINOGENICITY (inhalation) - Category 1A
Carc. 1B, H350	CARCINOGENICITY - Category 1B
Carc. 1B, H350i (inhalation)	CARCINOGENICITY (inhalation) - Category 1B
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Muta. 2, H341	GERM CELL MUTAGENICITY - Category 2
Repr. 1B, H360D	REPRODUCTIVE TOXICITY (Unborn child) - Category 1B
Repr. 1B, H360F	REPRODUCTIVE TOXICITY (Fertility) - Category 1B
Resp. Sens. 1, H334	RESPIRATORY SENSITISATION - Category 1
Skin Corr. 1, H314	SKIN CORROSION/IRRITATION - Category 1
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
STOT RE 1, H372	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT SE 1, H370	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

**Date of issue/ Date of revision** : 31/08/2018

**Date of previous issue** : 24/01/2017

**Version** : 3

**Notice to reader**

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