

SAFETY DATA SHEET



AdEasy Viral Titer Kit, Part Number 972500

Section 1. Identification

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

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

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

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

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

Section 2. Hazard(s) identification

Classification of the substance or mixture

10x DAB Substrate

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

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

GHS label elements

Section 2. Hazard(s) identification

Hazard pictograms : 10x DAB Substrate



Signal word : Mouse Anti-Hexon Antibody No signal word.
 Secondary Goat Anti-Mouse No signal word.
 Antibody
 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 No known significant effects or critical hazards.
 Antibody
 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.
 H360 - May damage fertility or the unborn child.
 H341 - Suspected of causing genetic defects.
 H370 - Causes damage to organs.
 H373 - May cause 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 Not applicable.
 Antibody
 10x DAB Substrate P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P281 - Use personal protective equipment as required.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P285 - In case of inadequate ventilation wear respiratory protection.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P260 - Do not breathe vapour.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.
 P272 - Contaminated work clothing should not be allowed out of the workplace.
 1x Peroxidase Not applicable.

Section 2. Hazard(s) identification

Response	: <input checked="" type="checkbox"/> Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate	Not applicable. Not applicable. P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P307 + P311 - IF exposed: Call a POISON CENTER or physician. P304 + P340 + P310 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. 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 + P352 + P312 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. 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.
Storage	1x Peroxidase : <input checked="" type="checkbox"/> Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate	Not applicable. Not applicable. P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.
Disposal	1x Peroxidase : <input checked="" type="checkbox"/> Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	1x Peroxidase	Not applicable.
Additional warning phrases	: <input checked="" type="checkbox"/> Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	Not applicable. Not applicable. Not applicable. Not applicable.
Other hazards which do not result in classification	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	None known. None known. None known. None known.

Section 3. Composition and ingredient information

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

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
Secondary Goat Anti-Mouse Antibody		
Glycerol	≥30 - ≤60	56-81-5
10x DAB Substrate		
Ethenediol	≥30 - ≤60	107-21-1
Methanol	≥30 - ≤60	67-56-1
Cobalt(II) chloride, hexahydrate	≤1.2	7791-13-1
Nickel dichloride	≤1.2	7718-54-9
Biphenyl-3,3', 4,4'-tetrayltetraamine	≤3	91-95-2

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	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.
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. 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

Section 4. First aid measures

unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Skin contact

1x Peroxidase

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

: Mouse Anti-Hexon Antibody

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

Secondary Goat Anti-Mouse Antibody

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

10x DAB Substrate

Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

1x Peroxidase

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

Ingestion

: Mouse Anti-Hexon Antibody

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Secondary Goat Anti-Mouse Antibody

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

10x DAB Substrate

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

1x Peroxidase

Section 4. First aid measures

air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	No known significant effects or critical hazards. No known significant effects or critical hazards. 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. May cause allergy or asthma symptoms or breathing difficulties if inhaled. No known significant effects or critical hazards.
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. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye 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 watering redness No specific data.
Inhalation	: 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: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations No specific data.
Skin contact	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate	No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

Section 4. First aid measures

Ingestion	1x Peroxidase	No specific data.
	: 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.

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

Notes to physician	: Mouse Anti-Hexon Antibody	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Secondary Goat Anti-Mouse Antibody	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	10x DAB Substrate	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.
	1x Peroxidase	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Mouse Anti-Hexon Antibody	No specific treatment.
	Secondary Goat Anti-Mouse Antibody	No specific treatment.
	10x DAB Substrate	No specific treatment.
	1x Peroxidase	No specific treatment.
Protection of first-aiders	: 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.



See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: Mouse Anti-Hexon Antibody	Use an extinguishing agent suitable for the surrounding fire.
	Secondary Goat Anti-Mouse Antibody	Use an extinguishing agent suitable for the surrounding fire.
	10x DAB Substrate	Use dry chemical, CO ₂ , water spray (fog) or foam.
	1x Peroxidase	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Firefighting measures

Unsuitable extinguishing media	: 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.
Specific hazards arising from the chemical	:  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.
Hazardous thermal decomposition products	:  Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	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
Special protective actions for fire-fighters	: Mouse Anti-Hexon Antibody Secondary Goat Anti-Mouse Antibody 10x DAB Substrate 1x Peroxidase	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 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.

Section 5. Firefighting measures

Special protective equipment for fire-fighters	: Mouse Anti-Hexon Antibody	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Secondary Goat Anti-Mouse Antibody	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10x DAB Substrate	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	1x Peroxidase	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazchem code	: Mouse Anti-Hexon Antibody	Not available.
	Secondary Goat Anti-Mouse Antibody	Not available.
	10x DAB Substrate	•3W
	1x Peroxidase	Not available.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Mouse Anti-Hexon Antibody	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Secondary Goat Anti-Mouse Antibody	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	10x DAB Substrate	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	1x Peroxidase	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: Mouse Anti-Hexon Antibody	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	Secondary Goat Anti-Mouse Antibody	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	10x DAB Substrate	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on

Section 6. Accidental release measures

1x Peroxidase

suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Mouse Anti-Hexon Antibody

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Secondary Goat Anti-Mouse Antibody

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

10x DAB Substrate

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

1x Peroxidase

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Methods for cleaning up : Mouse Anti-Hexon Antibody

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Secondary Goat Anti-Mouse Antibody

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

10x DAB Substrate

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

1x Peroxidase

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

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).
	10x DAB Substrate	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).
Advice on general occupational hygiene	: Mouse Anti-Hexon Antibody	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Secondary Goat Anti-Mouse Antibody	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	10x DAB Substrate	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	1x Peroxidase	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : **Mouse Anti-Hexon Antibody**

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

Secondary Goat Anti-Mouse Antibody

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

10x DAB Substrate

Do not store above the following temperature: -20°C (-4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from alkalis. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

1x Peroxidase

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
Secondary Goat Anti-Mouse Antibody Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours.
10x DAB Substrate Ethanediol	Safe Work Australia (Australia, 1/2014). Absorbed through skin. TWA: 10 mg/m ³ 8 hours. Form: Particulate STEL: 104 mg/m ³ 15 minutes. Form: Vapour TWA: 52 mg/m ³ 8 hours. Form: Vapour TWA: 20 ppm 8 hours. Form: Vapour STEL: 40 ppm 15 minutes. Form: Vapour
Methanol	Safe Work Australia (Australia, 1/2014). Absorbed through skin. STEL: 328 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.
Cobalt(II) chloride, hexahydrate	ACGIH TLV (United States, 3/2017). TWA: 0.02 mg/m ³ , (as Co) 8 hours.
Nickel dichloride	Safe Work Australia (Australia, 1/2014). TWA: 0.1 mg/m ³ 8 hours.

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

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

Individual protection measures

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

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

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.

Section 8. Exposure controls and personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Mouse Anti-Hexon Antibody Liquid.
Secondary Goat Anti-Mouse Antibody Liquid.
10x DAB Substrate Liquid.
1x Peroxidase Liquid. [Clear sparkling liquid.]
- Colour** : Mouse Anti-Hexon Antibody Not available.
Secondary Goat Anti-Mouse Antibody Not available.
10x DAB Substrate Purple.
1x Peroxidase Colourless.
- Odour** : Mouse Anti-Hexon Antibody Not available.
Secondary Goat Anti-Mouse Antibody Not available.
10x DAB Substrate Alcohol-like.
1x Peroxidase Not available.
- Odour threshold** : Mouse Anti-Hexon Antibody Not available.
Secondary Goat Anti-Mouse Antibody Not available.
10x DAB Substrate Not available.
1x Peroxidase Not available.
- pH** : Mouse Anti-Hexon Antibody 7.2
Secondary Goat Anti-Mouse Antibody Not available.
10x DAB Substrate 1.5 to 2
1x Peroxidase 5 to 5.2
- Melting point** : Mouse Anti-Hexon Antibody 0°C (32°F)
Secondary Goat Anti-Mouse Antibody Not available.
10x DAB Substrate Not available.
1x Peroxidase Not available.
- Boiling point** : Mouse Anti-Hexon Antibody 100°C (212°F)
Secondary Goat Anti-Mouse Antibody Not available.
10x DAB Substrate Not available.
1x Peroxidase Not available.
- Flash point** : Mouse Anti-Hexon Antibody Not available.
Secondary Goat Anti-Mouse Antibody Not available.
10x DAB Substrate Closed cup: <30°C (<86°F)
1x Peroxidase Not available.

Section 9. Physical and chemical properties

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

Section 10. Stability and reactivity

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

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Secondary Goat Anti-Mouse Antibody Glycerol	LD50 Oral	Rat	12600 mg/kg	-
10x DAB Substrate 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

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	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
10x DAB Substrate Methanol	Category 1	Not determined	Not determined

Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
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 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.
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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. No known significant effects or critical hazards. 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. May cause allergy or asthma symptoms or breathing difficulties if inhaled. No known significant effects or critical hazards.
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. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye 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 watering redness No specific data.
Inhalation	: 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: wheezing and breathing difficulties asthma reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

Section 11. Toxicological information

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

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

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

Section 11. Toxicological information

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

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
10x DAB Substrate	
Oral	184.1 mg/kg
Dermal	666.7 mg/kg
Inhalation (vapours)	6.667 mg/l
Inhalation (dusts and mists)	59.3 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

Toxicity

Product/ingredient name	Result	Species	Exposure
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
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

Section 12. Ecological information

	Chronic NOEC 0.5 mg/l Fresh water Chronic NOEC 200 µg/l Fresh water Chronic NOEC 466 µg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Oncorhynchus mykiss - Embryo	4 days 21 days 55 days
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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 Ethenediol	OECD 301C Ready Biodegradability - Modified MITI Test (I)	90 to 100 % - 10 days	-	-

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

Bioaccumulative potential

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

Mobility in soil

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

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





Section 13. Disposal considerations

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

Section 13. Disposal considerations

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

Section 14. Transport information

	ADG	IMDG	IATA
UN number	UN3316	UN3316	UN3316
UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9  	9 
Packing group	II	II	II
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADG	: Hazchem code 2Z 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

Standard Uniform Schedule of Medicine and Poisons

6

Model Work Health and Safety Regulations - Scheduled Substances

Ingredient name	Schedule
<input checked="" type="checkbox"/> 10x DAB Substrate methanol Cobalt(II) chloride, hexahydrate Nickel chloride	Restricted hazardous chemical [For spray painting if the substance contains more than 1% by volume] Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 0.1% as cobalt] Restricted hazardous chemical [For abrasive blasting at a concentration of

Section 15. Regulatory information

greater than 0.1% as nickel]

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

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

Section 16. Any other relevant information

History

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

Date of previous issue : 24/01/2017

Version : 5

Key to abbreviations

: ADG = Australian Dangerous Goods
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 NOHSC = National Occupational Health and Safety Commission
 SUSMP = Standard Uniform Schedule of Medicine and Poisons
 UN = United Nations

Procedure used to derive the classification

Section 16. Any other relevant information

Classification	Justification
10x DAB Substrate Flam. Liq. 3, H226 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 Repr. 1B, H360 (Fertility) Repr. 1B, H360 (Unborn child) STOT SE 1, H370 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 2, H411	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 Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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