Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

Anti-FITC-AP CISH Accessory Kit (Dako Omnis), Box A

Section 1. Identification

Product identifier : Anti-FITC-AP CISH Accessory Kit (Dako Omnis), Box A

Part no. (chemical kit) : K589911-21

Part no. :

CISH Endogenous Enzyme Block (Dako Omnis)	K589911-21510
Anti-FITC-AP (Dako Omnis)	K589911-21511
BCIP-NBT Substrate (Dako Omnis)	K589911-21512

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

Identified uses : Laboratory use

CISH Endogenous Enzyme Block (Dako Omnis)	13.7 ml
Anti-FITC-AP (Dako Omnis)	9.3 ml
BCIP-NBT Substrate (Dako Omnis)	26.9 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

BCIP-NBT Substrate (Dako Omnis)

H360	REPRODUCTIVE TOXICITY - Category 1
H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Anti-FITC-AP (Dako Omnis) Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3%

GHS label elements

Hazard pictograms : BCIP-NBT Substrate (Dako Omnis)

Signal word :

CISH Endogenous Enzyme Block (Dako Omnis)	No signal word.
Anti-FITC-AP (Dako Omnis)	No signal word.
BCIP-NBT Substrate (Dako Omnis)	DANGER

Hazard statements :

CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
BCIP-NBT Substrate (Dako Omnis)	H360 - May damage fertility or the unborn child. H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Section 2. Hazard(s) identification

Prevention	:	CISH Endogenous Enzyme Block (Dako Omnis)	Not applicable.
		Anti-FITC-AP (Dako Omnis)	Not applicable.
		BCIP-NBT Substrate (Dako Omnis)	P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing and eye or face protection. P273 - Avoid release to the environment.
Response	:	CISH Endogenous Enzyme Block (Dako Omnis)	Not applicable.
		Anti-FITC-AP (Dako Omnis)	Not applicable.
		BCIP-NBT Substrate (Dako Omnis)	P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	:	CISH Endogenous Enzyme Block (Dako Omnis)	Not applicable.
		Anti-FITC-AP (Dako Omnis)	Not applicable.
		BCIP-NBT Substrate (Dako Omnis)	Not applicable.
Disposal	:	CISH Endogenous Enzyme Block (Dako Omnis)	Not applicable.
		Anti-FITC-AP (Dako Omnis)	Not applicable.
		BCIP-NBT Substrate (Dako Omnis)	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

Additional warning phrases	:	CISH Endogenous Enzyme Block (Dako Omnis)	Not applicable.
		Anti-FITC-AP (Dako Omnis)	Not applicable.
		BCIP-NBT Substrate (Dako Omnis)	Not applicable.
Other hazards which do not result in classification	:	CISH Endogenous Enzyme Block (Dako Omnis)	None known.
		Anti-FITC-AP (Dako Omnis)	None known.
		BCIP-NBT Substrate (Dako Omnis)	None known.

Section 3. Composition and ingredient information

Substance/mixture	:	CISH Endogenous Enzyme Block (Dako Omnis)	Mixture
		Anti-FITC-AP (Dako Omnis)	Mixture
		BCIP-NBT Substrate (Dako Omnis)	Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
CISH Endogenous Enzyme Block (Dako Omnis)		
hydrogen peroxide	≤5	7722-84-1
Anti-FITC-AP (Dako Omnis)		
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	≤3	25322-68-3
BCIP-NBT Substrate (Dako Omnis)		
N,N-Dimethylformamide	≤3	68-12-2

Section 3. Composition and ingredient information

Magnesium chloride	≤1	7786-30-3

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

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

: CISH Endogenous Enzyme Block (Dako Omnis): 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.

Anti-FITC-AP (Dako Omnis): 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.

BCIP-NBT Substrate (Dako Omnis): 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. Get medical attention.

Inhalation

: CISH Endogenous Enzyme Block (Dako Omnis): Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Anti-FITC-AP (Dako Omnis): Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.

BCIP-NBT Substrate (Dako Omnis): Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. 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.

Skin contact

: CISH Endogenous Enzyme Block (Dako Omnis): Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Anti-FITC-AP (Dako Omnis): Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

BCIP-NBT Substrate (Dako Omnis): Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion	:	CISH Endogenous Enzyme Block (Dako Omnis)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
		Anti-FITC-AP (Dako Omnis)	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
		BCIP-NBT Substrate (Dako Omnis)	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	:	CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
		Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
		BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.
Inhalation	:	CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
		Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
		BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.
Skin contact	:	CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
		Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
		BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.
Ingestion	:	CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
		Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
		BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	CISH Endogenous Enzyme Block (Dako Omnis)	No specific data.
		Anti-FITC-AP (Dako Omnis)	No specific data.
		BCIP-NBT Substrate (Dako Omnis)	No specific data.
Inhalation	:	CISH Endogenous Enzyme Block (Dako Omnis)	No specific data.
		Anti-FITC-AP (Dako Omnis)	No specific data.
		BCIP-NBT Substrate (Dako Omnis)	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Section 4. First aid measures

Skin contact

CISH Endogenous Enzyme Block (Dako Omnis)	No specific data.
Anti-FITC-AP (Dako Omnis)	No specific data.
BCIP-NBT Substrate (Dako Omnis)	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion

CISH Endogenous Enzyme Block (Dako Omnis)	No specific data.
Anti-FITC-AP (Dako Omnis)	No specific data.
BCIP-NBT Substrate (Dako Omnis)	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

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

Notes to physician

CISH Endogenous Enzyme Block (Dako Omnis)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Anti-FITC-AP (Dako Omnis)	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.
BCIP-NBT Substrate (Dako Omnis)	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.

Specific treatments

CISH Endogenous Enzyme Block (Dako Omnis)	No specific treatment.
Anti-FITC-AP (Dako Omnis)	No specific treatment.
BCIP-NBT Substrate (Dako Omnis)	No specific treatment.

Protection of first-aiders

CISH Endogenous Enzyme Block (Dako Omnis)	No action shall be taken involving any personal risk or without suitable training.
Anti-FITC-AP (Dako Omnis)	No action shall be taken involving any personal risk or without suitable training.
BCIP-NBT Substrate (Dako Omnis)	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

CISH Endogenous Enzyme Block (Dako Omnis)	Use an extinguishing agent suitable for the surrounding fire.
Anti-FITC-AP (Dako Omnis)	Use an extinguishing agent suitable for the surrounding fire.
BCIP-NBT Substrate (Dako Omnis)	Use an extinguishing agent suitable for the surrounding fire.

Section 5. Firefighting measures

Unsuitable extinguishing media

: CISH Endogenous Enzyme Block (Dako Omnis): None known.

Anti-FITC-AP (Dako Omnis): None known.

BCIP-NBT Substrate (Dako Omnis): None known.

Specific hazards arising from the chemical

: CISH Endogenous Enzyme Block (Dako Omnis): In a fire or if heated, a pressure increase will occur and the container may burst.

Anti-FITC-AP (Dako Omnis): In a fire or if heated, a pressure increase will occur and the container may burst.

BCIP-NBT Substrate (Dako Omnis): In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: CISH Endogenous Enzyme Block (Dako Omnis): No specific data.

Anti-FITC-AP (Dako Omnis): Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
phosphorus oxides

BCIP-NBT Substrate (Dako Omnis): Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

Special protective actions for fire-fighters

: CISH Endogenous Enzyme Block (Dako Omnis): 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.

Anti-FITC-AP (Dako Omnis): 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.

BCIP-NBT Substrate (Dako Omnis): 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

: CISH Endogenous Enzyme Block (Dako Omnis): Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Anti-FITC-AP (Dako Omnis): Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

BCIP-NBT Substrate (Dako Omnis): Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	CISH Endogenous Enzyme Block (Dako Omnis)	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.
		Anti-FITC-AP (Dako Omnis)	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.
		BCIP-NBT Substrate (Dako Omnis)	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	CISH Endogenous Enzyme Block (Dako Omnis)	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".
		Anti-FITC-AP (Dako Omnis)	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".
		BCIP-NBT Substrate (Dako Omnis)	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	:	CISH Endogenous Enzyme Block (Dako Omnis)	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).
		Anti-FITC-AP (Dako Omnis)	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).
		BCIP-NBT Substrate (Dako Omnis)	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.

Methods and material for containment and cleaning up

Methods for cleaning up	:	CISH Endogenous Enzyme Block (Dako Omnis)	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.
		Anti-FITC-AP (Dako Omnis)	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

Section 6. Accidental release measures

	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
BCIP-NBT Substrate (Dako Omnis)	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	:	CISH Endogenous Enzyme Block (Dako Omnis)	Put on appropriate personal protective equipment (see Section 8).
		Anti-FITC-AP (Dako Omnis)	Put on appropriate personal protective equipment (see Section 8).
		BCIP-NBT Substrate (Dako Omnis)	Put on appropriate personal protective equipment (see Section 8). 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 ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	CISH Endogenous Enzyme Block (Dako Omnis)	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.
		Anti-FITC-AP (Dako Omnis)	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.
		BCIP-NBT Substrate (Dako Omnis)	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.
Conditions for safe storage, including any incompatibilities	:	CISH Endogenous Enzyme Block (Dako Omnis)	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

Section 7. Handling and storage

Anti-FITC-AP (Dako Omnis)	incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.
BCIP-NBT Substrate (Dako Omnis)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in 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

Ingredient name	Exposure limits
CISH Endogenous Enzyme Block (Dako Omnis)	
hydrogen peroxide	**Safe Work Australia (Australia, 10/2022).** TWA: 1.4 mg/m³ 8 hours. TWA: 1 ppm 8 hours.
Anti-FITC-AP (Dako Omnis)	
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	**DFG MAC-values list (Germany, 7/2023). [Polyethylene glycol (average molecular weight 200 – 600)]** PEAK: 400 mg/m³, 4 times per shift, 15 minutes. Form: inhalable fraction TWA: 200 mg/m³ 8 hours. Form: inhalable fraction
BCIP-NBT Substrate (Dako Omnis)	
N,N-Dimethylformamide	**Safe Work Australia (Australia, 10/2022). Absorbed through skin.** TWA: 30 mg/m³ 8 hours. TWA: 10 ppm 8 hours.

Biological exposure indices

No exposure indices known.

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

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

Section 8. Exposure controls and personal protection

Individual protection measures

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

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state :

CISH Endogenous Enzyme Block (Dako Omnis)	Liquid.
Anti-FITC-AP (Dako Omnis)	Liquid.
BCIP-NBT Substrate (Dako Omnis)	Liquid.

Colour :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Not available.

Odour :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Not available.

Odour threshold :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Not available.

Section 9. Physical and chemical properties and safety characteristics

pH :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	7.5
BCIP-NBT Substrate (Dako Omnis)	9

Melting point/freezing point :

CISH Endogenous Enzyme Block (Dako Omnis)	0°C (32°F)
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	0°C (32°F)

Boiling point, initial boiling point, and boiling range :

CISH Endogenous Enzyme Block (Dako Omnis)	100°C (212°F)
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	100°C (212°F)

Flash point :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Not available.

Ingredient name	Closed cup °C	Closed cup °F	Closed cup Method	Open cup °C	Open cup °F	Open cup Method
Anti-FITC-AP (Dako Omnis)						
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated	171 to 235	339.8 to 455	-	199 to 238	390.2 to 460.4	-
BCIP-NBT Substrate (Dako Omnis)						
N,N-Dimethylformamide	57.5	135.5	DIN 51755	-	-	-

Evaporation rate :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Not available.

Flammability :

CISH Endogenous Enzyme Block (Dako Omnis)	Not applicable.
Anti-FITC-AP (Dako Omnis)	Not applicable.
BCIP-NBT Substrate (Dako Omnis)	Not applicable.

Lower and upper explosion limit/flammability limit :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Not available.

Vapour pressure :

Section 9. Physical and chemical properties and safety characteristics

Ingredient name	Vapour Pressure at 20˚C			Vapour pressure at 50˚C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
CISH Endogenous Enzyme Block (Dako Omnis)						
water	17.5	2.3	-	92.258	12.3	-
hydrogen peroxide	0.75006	0.1	-	-	-	-
Anti-FITC-AP (Dako Omnis)						
water	17.5	2.3	-	92.258	12.3	-
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated	0.0000003	0.00000004	-	-	-	-
BCIP-NBT Substrate (Dako Omnis)						
water	17.5	2.3	-	92.258	12.3	-
N,N-Dimethylformamide	3.7	0.49	-	-	-	-

Relative vapour density :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Not available.

Relative density :

CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Not available.

Solubility(ies) :

Media	Result
CISH Endogenous Enzyme Block (Dako Omnis)	
water	Soluble
Anti-FITC-AP (Dako Omnis)	
water	Soluble
BCIP-NBT Substrate (Dako Omnis)	
water	Soluble

Partition coefficient: n-octanol/water :

CISH Endogenous Enzyme Block (Dako Omnis)	Not applicable.
Anti-FITC-AP (Dako Omnis)	Not applicable.
BCIP-NBT Substrate (Dako Omnis)	Not applicable.

Auto-ignition temperature :

Section 9. Physical and chemical properties and safety characteristics

Ingredient name	°C	°F	Method
Anti-FITC-AP (Dako Omnis)			
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	360	680	-
BCIP-NBT Substrate (Dako Omnis)			
N,N-Dimethylformamide	445	833	-

Decomposition temperature :
- CISH Endogenous Enzyme Block (Dako Omnis): Not available.
- Anti-FITC-AP (Dako Omnis): Not available.
- BCIP-NBT Substrate (Dako Omnis): Not available.

Viscosity :
- CISH Endogenous Enzyme Block (Dako Omnis): Not available.
- Anti-FITC-AP (Dako Omnis): Not available.
- BCIP-NBT Substrate (Dako Omnis): Not available.

Particle characteristics

Median particle size :
- CISH Endogenous Enzyme Block (Dako Omnis): Not applicable.
- Anti-FITC-AP (Dako Omnis): Not applicable.
- BCIP-NBT Substrate (Dako Omnis): Not applicable.

Section 10. Stability and reactivity

Reactivity :
- CISH Endogenous Enzyme Block (Dako Omnis): No specific test data related to reactivity available for this product or its ingredients.
- Anti-FITC-AP (Dako Omnis): No specific test data related to reactivity available for this product or its ingredients.
- BCIP-NBT Substrate (Dako Omnis): No specific test data related to reactivity available for this product or its ingredients.

Chemical stability :
- CISH Endogenous Enzyme Block (Dako Omnis): The product is stable.
- Anti-FITC-AP (Dako Omnis): The product is stable.
- BCIP-NBT Substrate (Dako Omnis): The product is stable.

Possibility of hazardous reactions :
- CISH Endogenous Enzyme Block (Dako Omnis): Under normal conditions of storage and use, hazardous reactions will not occur.
- Anti-FITC-AP (Dako Omnis): Under normal conditions of storage and use, hazardous reactions will not occur.
- BCIP-NBT Substrate (Dako Omnis): Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid :
- CISH Endogenous Enzyme Block (Dako Omnis): No specific data.
- Anti-FITC-AP (Dako Omnis): No specific data.
- BCIP-NBT Substrate (Dako Omnis): No specific data.

Section 10. Stability and reactivity

Incompatible materials :

CISH Endogenous Enzyme Block (Dako Omnis)	May react or be incompatible with oxidising materials.
Anti-FITC-AP (Dako Omnis)	May react or be incompatible with oxidising materials.
BCIP-NBT Substrate (Dako Omnis)	May react or be incompatible with oxidising materials.

Hazardous decomposition products :

CISH Endogenous Enzyme Block (Dako Omnis)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Anti-FITC-AP (Dako Omnis)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
BCIP-NBT Substrate (Dako Omnis)	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
CISH Endogenous Enzyme Block (Dako Omnis)				
hydrogen peroxide	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg 35% solution	-
	LD50 Oral	Rat - Female	693.7 mg/kg 70% solution	-
BCIP-NBT Substrate (Dako Omnis)				
N,N-Dimethylformamide	LC50 Inhalation Vapour	Rat	3421 ppm	1 hours
	LC50 Inhalation Vapour	Rat	1948 ppm	4 hours
	LD50 Oral	Rat	4000 mg/kg	-
Magnesium chloride	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
CISH Endogenous Enzyme Block (Dako Omnis)					
hydrogen peroxide	Eyes - Severe irritant	Rabbit	-	1 mg	-
Anti-FITC-AP (Dako Omnis)					
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
BCIP-NBT Substrate (Dako Omnis)					
N,N-Dimethylformamide	Eyes - Severe irritant	Rabbit	-	100 %	-

Sensitisation

Not available.

Section 11. Toxicological information

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
CISH Endogenous Enzyme Block (Dako Omnis) hydrogen peroxide	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure :

CISH Endogenous Enzyme Block (Dako Omnis)	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
Anti-FITC-AP (Dako Omnis)	Not available.
BCIP-NBT Substrate (Dako Omnis)	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact :

CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.

Inhalation :

CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.

Skin contact :

CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.

Ingestion :

CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact :

CISH Endogenous Enzyme Block (Dako Omnis)	No specific data.
Anti-FITC-AP (Dako Omnis)	No specific data.
BCIP-NBT Substrate (Dako Omnis)	No specific data.

Section 11. Toxicological information

Inhalation	:	CISH Endogenous Enzyme Block (Dako Omnis)	No specific data.
		Anti-FITC-AP (Dako Omnis)	No specific data.
		BCIP-NBT Substrate (Dako Omnis)	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	:	CISH Endogenous Enzyme Block (Dako Omnis)	No specific data.
		Anti-FITC-AP (Dako Omnis)	No specific data.
		BCIP-NBT Substrate (Dako Omnis)	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	:	CISH Endogenous Enzyme Block (Dako Omnis)	No specific data.
		Anti-FITC-AP (Dako Omnis)	No specific data.
		BCIP-NBT Substrate (Dako Omnis)	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

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	:	CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
		Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
		BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.
Carcinogenicity	:	CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
		Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
		BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.
Mutagenicity	:	CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
		Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
		BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards.
Reproductive toxicity	:	CISH Endogenous Enzyme Block (Dako Omnis)	No known significant effects or critical hazards.
		Anti-FITC-AP (Dako Omnis)	No known significant effects or critical hazards.
		BCIP-NBT Substrate (Dako Omnis)	May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
CISH Endogenous Enzyme Block (Dako Omnis)					
CISH Endogenous Enzyme Block (Dako Omnis)	23128.0	N/A	N/A	366.7	N/A
hydrogen peroxide	693.7	N/A	N/A	11	N/A
Anti-FITC-AP (Dako Omnis)					
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy-Ethane-1,2-diol, ethoxylated	28000	N/A	N/A	N/A	N/A
BCIP-NBT Substrate (Dako Omnis)					
BCIP-NBT Substrate (Dako Omnis)	N/A	88332.4	N/A	647.8	N/A
N,N-Dimethylformamide	4000	1500	N/A	11	N/A
Magnesium chloride	2800	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
CISH Endogenous Enzyme Block (Dako Omnis)			
hydrogen peroxide	Acute EC50 1.2 mg/l Marine water	Algae - *Dunaliella tertiolecta* - Exponential growth phase	72 hours
	Acute EC50 2320 µg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	48 hours
	Acute LC50 93 ppm Fresh water	Fish - *Oncorhynchus mykiss*	96 hours
	Chronic NOEC 0.63 mg/l Fresh water	Daphnia - *Daphnia Magna*	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - *Micropterus salmoides*	28 days
Anti-FITC-AP (Dako Omnis)			
Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	Acute EC50 >100 mg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute LC50 >1000000 µg/l Fresh water	Fish - *Salmo salar* - Parr	96 hours
BCIP-NBT Substrate (Dako Omnis)			
N,N-Dimethylformamide	Acute EC50 4500 mg/l Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute LC50 >100000 µg/l Marine water	Crustaceans - *Crangon crangon* - Adult	48 hours
	Acute LC50 7100000 µg/l Fresh water	Fish - *Lepomis macrochirus* - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 1500 mg/l Fresh water	Daphnia - *Daphnia magna*	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Fish - *Oncorhynchus mykiss* - Embryo	30 days
Magnesium chloride	Acute EC50 >100 mg/l Fresh water	Algae - *Desmodesmus subspicatus*	72 hours
	Acute EC50 180000 µg/l Fresh water	Crustaceans - *Eudiaptomus padanus ssp. padanus* - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - *Lemna aequinoctialis*	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - *Daphnia hyalina* - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - *Pimephales promelas*	96 hours
	Acute NOEC 100 mg/l Fresh water	Algae - *Desmodesmus subspicatus*	72 hours

Section 12. Ecological information

	Chronic NOEC 0.1 mg/l Fresh water	Fish - *Cyprinus carpio*	35 days

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Anti-FITC-AP (Dako Omnis) Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	OECD 301D Ready Biodegradability - Closed Bottle Test	74.85 % - Readily - 28 days	4 mg/l	-
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	-	100 % - Readily - 21 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
CISH Endogenous Enzyme Block (Dako Omnis) hydrogen peroxide	-	-	Readily
Anti-FITC-AP (Dako Omnis) Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	-	-	Readily
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
CISH Endogenous Enzyme Block (Dako Omnis) hydrogen peroxide	-1.36	-	Low
Anti-FITC-AP (Dako Omnis) Poly(oxy-1,2-ethanediyl),α-hydro-ω-hydroxy- Ethane-1,2-diol, ethoxylated	-	3.2	Low
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	-1.01	0.79	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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

New Zealand : Not determined.

United States : All components are active or exempted.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 12/11/2024

Date of previous issue : 20/10/2023

Version : 6

Key to abbreviations : ADG = Australian Dangerous Goods
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
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)
N/A = Not available
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification	Justification
BCIP-NBT Substrate (Dako Omnis)	
REPRODUCTIVE TOXICITY - Category 1	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3	Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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