

SAFETY DATA SHEET



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

Section 1. Identification

1.1 Product identifier

Product name : 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
Validation date : 11/12/2024

1.2 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

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : CISH Endogenous Enzyme Block (Dako Omnis) While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
 Anti-FITC-AP (Dako Omnis) While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
 BCIP-NBT Substrate (Dako Omnis) This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture


BCIP-NBT Substrate (Dako Omnis)

H350 CARCINOGENICITY - Category 1B
 H360 TOXIC TO REPRODUCTION - Category 1B
 H412 AQUATIC HAZARD (LONG-TERM) - Category 3

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

Section 2. Hazards identification

2.2 GHS label elements

Hazard pictograms	: BCIP-NBT Substrate (Dako Omnis)	
Signal word	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	No signal word. No signal word. Danger
Hazard statements	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards. No known significant effects or critical hazards. H350 - May cause cancer. H360 - May damage fertility or the unborn child. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	Not applicable. Not applicable. 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) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	Not applicable. Not applicable. P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	Not applicable. Not applicable. Not applicable.
Disposal	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	None known. None known. None known.
2.3 Other hazards		
Hazards not otherwise classified	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	None known. None known. None known.

Section 3. Composition/information on ingredients

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

Ingredient name	%	CAS number
CISH Endogenous Enzyme Block (Dako Omnis)		
hydrogen peroxide	<5	7722-84-1
Sodium azide	≤0.19	26628-22-8
Anti-FITC-AP (Dako Omnis)		
Polyoxyethylene octyl phenyl ether	≤0.12	9002-93-1
Sodium azide	≤0.12	26628-22-8
BCIP-NBT Substrate (Dako Omnis)		
N,N-Dimethylformamide	≤3	68-12-2
Magnesium chloride	<1	7786-30-3

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: 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

Section 4. First aid measures

	Omnis)	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.
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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

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

Over-exposure signs/symptoms

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

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

Section 4. First aid measures

Notes to physician	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</p> <p>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.</p> <p>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.</p>
Specific treatments	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>No specific treatment.</p> <p>No specific treatment.</p> <p>No specific treatment.</p>
Protection of first-aiders	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>No action shall be taken involving any personal risk or without suitable training.</p> <p>No action shall be taken involving any personal risk or without suitable training.</p> <p>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.</p>

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>Use an extinguishing agent suitable for the surrounding fire.</p> <p>Use an extinguishing agent suitable for the surrounding fire.</p> <p>Use an extinguishing agent suitable for the surrounding fire.</p>
Unsuitable extinguishing media	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>None known.</p> <p>None known.</p> <p>None known.</p>

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>In a fire or if heated, a pressure increase will occur and the container may burst.</p> <p>In a fire or if heated, a pressure increase will occur and the container may burst.</p> <p>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.</p>
---	--	--

Section 5. Fire-fighting measures

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

5.3 Advice for firefighters

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

6.1 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 spilled 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 spilled 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 spilled material. Put on appropriate personal protective equipment.

Section 6. Accidental release measures

		surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p> <p>If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".</p>
6.2 Environmental precautions	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p> <p>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.</p>
6.3 Methods and materials for containment and cleaning up		
Methods for cleaning up	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</p> <p>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</p> <p>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</p>

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures	<p>: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>Put on appropriate personal protective equipment (see Section 8).</p> <p>Put on appropriate personal protective equipment (see Section 8).</p> <p>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 vapor 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.</p>
Advice on general occupational hygiene	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p> <p>BCIP-NBT Substrate (Dako Omnis)</p>	<p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p> <p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p> <p>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.</p>
7.2 Conditions for safe storage, including any incompatibilities	<p>: CISH Endogenous Enzyme Block (Dako Omnis)</p> <p>Anti-FITC-AP (Dako Omnis)</p>	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.</p> <p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been</p>

Section 7. Handling and storage

BCIP-NBT Substrate (Dako Omnis)

opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

: CISH Endogenous Enzyme Block (Dako Omnis) Industrial applications, Professional applications.
 Anti-FITC-AP (Dako Omnis) Industrial applications, Professional applications.
 BCIP-NBT Substrate (Dako Omnis) Industrial applications, Professional applications.

Industrial sector specific solutions

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

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
CISH Endogenous Enzyme Block (Dako Omnis) hydrogen peroxide	<p>ACGIH TLV (United States, 1/2022). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 10/2020). TWA: 1 ppm 10 hours. TWA: 1.4 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 5/2018). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.</p> <p>CAL OSHA PEL (United States, 5/2018). TWA: 1.4 mg/m³, (as H₂O₂) 8 hours. TWA: 1 ppm, (as H₂O₂) 8 hours.</p>
Sodium azide	<p>ACGIH TLV (United States, 1/2022). C: 0.29 mg/m³, (as Sodium azide) C: 0.11 ppm, (as Hydrazoic acid vapor)</p> <p>OSHA PEL 1989 (United States, 3/1989). [Sodium azide (as HN₃)] Absorbed through</p>

Section 8. Exposure controls/personal protection

Anti-FITC-AP (Dako Omnis)

Polyoxyethylene octyl phenyl ether
Sodium azide

skin.

CEIL: 0.1 ppm, (as HN3)

OSHA PEL 1989 (United States, 3/1989).

[Sodium azide (as NaN₃)] Absorbed through skin.

CEIL: 0.3 mg/m³, (as NaN₃)

NIOSH REL (United States, 10/2020).

Absorbed through skin.

CEIL: 0.1 ppm, (as HN3)

CEIL: 0.3 mg/m³, (NaN₃)

CAL OSHA PEL (United States, 5/2018).

Absorbed through skin.

C: 0.3 mg/m³

C: 0.1 ppm

None.

ACGIH TLV (United States, 1/2022).

C: 0.29 mg/m³, (as Sodium azide)

C: 0.11 ppm, (as Hydrazoic acid vapor)

OSHA PEL 1989 (United States, 3/1989).

[Sodium azide (as HN3)] Absorbed through skin.

CEIL: 0.1 ppm, (as HN3)

OSHA PEL 1989 (United States, 3/1989).

[Sodium azide (as NaN₃)] Absorbed through skin.

CEIL: 0.3 mg/m³, (as NaN₃)

NIOSH REL (United States, 10/2020).

Absorbed through skin.

CEIL: 0.1 ppm, (as HN3)

CEIL: 0.3 mg/m³, (NaN₃)

CAL OSHA PEL (United States, 5/2018).

Absorbed through skin.

C: 0.3 mg/m³

C: 0.1 ppm

BCIP-NBT Substrate (Dako Omnis)

N,N-Dimethylformamide

ACGIH TLV (United States, 1/2022).

Absorbed through skin.

TWA: 5 ppm 8 hours.

TWA: 30 mg/m³ 8 hours.

OSHA PEL 1989 (United States, 3/1989).

Absorbed through skin.

TWA: 10 ppm 8 hours.

TWA: 30 mg/m³ 8 hours.

NIOSH REL (United States, 10/2020).

Absorbed through skin.

TWA: 10 ppm 10 hours.

TWA: 30 mg/m³ 10 hours.

OSHA PEL (United States, 5/2018).

Absorbed through skin.

TWA: 10 ppm 8 hours.

TWA: 30 mg/m³ 8 hours.

CAL OSHA PEL (United States, 5/2018).

Absorbed through skin.

TWA: 30 mg/m³ 8 hours.

TWA: 10 ppm 8 hours.

Section 8. Exposure controls/personal protection

Magnesium chloride	None.
--------------------	-------

Biological exposure indices

Ingredient name	Exposure indices
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	ACGIH BEI (United States, 1/2022) BEI: 30 mg/l, total N-methylformamide [in urine]. Sampling time: end of shift. BEI: 30 mg/l, N-acetyl-S-(N-methylcarbamoyl) cysteine [in urine]. Sampling time: end of shift at end of workweek.

8.2 Exposure controls

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor 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.

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.
Color	: CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
	Anti-FITC-AP (Dako Omnis)	Not available.
	BCIP-NBT Substrate (Dako Omnis)	Not available.
Odor	: CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
	Anti-FITC-AP (Dako Omnis)	Not available.
	BCIP-NBT Substrate (Dako Omnis)	Not available.
Odor threshold	: CISH Endogenous Enzyme Block (Dako Omnis)	Not available.
	Anti-FITC-AP (Dako Omnis)	Not available.
	BCIP-NBT Substrate (Dako Omnis)	Not available.
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			Open cup		
	°C	°F	Method	°C	°F	Method
BCIP-NBT Substrate (Dako Omnis)						
N,N-Dimethylformamide	57.5	135.5	DIN 51755	-	-	-

Section 9. Physical and chemical properties and safety characteristics

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.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor 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	0.75	0.1	-	-	-	-
Anti-FITC-AP (Dako Omnis)						
water	17.5	2.3	-	92.258	12.3	-
BCIP-NBT Substrate (Dako Omnis)						
water	17.5	2.3	-	92.258	12.3	-
N,N-Dimethylformamide	3.7	0.49	-	-	-	-

Relative vapor 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.

Section 9. Physical and chemical properties and safety characteristics

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	Ingredient name	°C	°F	Method
	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

10.1 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.
10.2 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.

Section 10. Stability and reactivity

10.3 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.
10.4 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.
10.5 Incompatible materials	: CISH Endogenous Enzyme Block (Dako Omnis)	May react or be incompatible with oxidizing materials.
	Anti-FITC-AP (Dako Omnis)	May react or be incompatible with oxidizing materials.
	BCIP-NBT Substrate (Dako Omnis)	May react or be incompatible with oxidizing materials.
10.6 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

11.1 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	-
Sodium azide	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.054 to 0.52 mg/l	4 hours
	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
Anti-FITC-AP (Dako Omnis) Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-
	Sodium azide	LC50 Inhalation Dusts and mists	Rat - Male, Female	0.054 to 0.52 mg/l 4 hours
Sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-
BCIP-NBT Substrate (Dako Omnis)				

Section 11. Toxicological information

N,N-Dimethylformamide	LC50 Inhalation Vapor	Rat	3421 ppm	1 hours
	LC50 Inhalation Vapor	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) Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	Eyes - Severe irritant	Rabbit	-	100 %	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
CISH Endogenous Enzyme Block (Dako Omnis) hydrogen peroxide	-	3	-
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	-	2A	-

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
Sodium azide	Category 1	-	cardiovascular system, gastrointestinal tract
Anti-FITC-AP (Dako Omnis) Sodium azide	Category 1	-	cardiovascular system, gastrointestinal tract

Section 11. Toxicological information

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
CISH Endogenous Enzyme Block (Dako Omnis) Sodium azide	Category 2	-	central nervous system (CNS)
Anti-FITC-AP (Dako Omnis) Sodium azide	Category 2	-	central nervous system (CNS)

Aspiration hazard

Not available.

Information on the 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.

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 fetal weight
 increase in fetal deaths
 skeletal malformations

Section 11. Toxicological information

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

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Long term exposure

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

General	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: CISH Endogenous Enzyme Block (Dako Omnis) Anti-FITC-AP (Dako Omnis) BCIP-NBT Substrate (Dako Omnis)	No known significant effects or critical hazards. No known significant effects or critical hazards. 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 (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
CISH Endogenous Enzyme Block (Dako Omnis) CISH Endogenous Enzyme Block (Dako Omnis) hydrogen peroxide Sodium azide	23128.0 693.7 27	83350 2500 20	N/A N/A N/A	366.7 11 N/A	N/A N/A 0.054
Anti-FITC-AP (Dako Omnis) Polyoxyethylene octyl phenyl ether Sodium azide	1800 27	N/A 20	N/A N/A	N/A N/A	N/A 0.054
BCIP-NBT Substrate (Dako Omnis) BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide Magnesium chloride	235552.9 4000 2800	88332.4 1500 2500	N/A N/A N/A	647.8 11 N/A	N/A N/A N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
CISH Endogenous Enzyme Block (Dako Omnis) hydrogen peroxide Sodium azide	Acute EC50 1.2 mg/l Marine water	Algae - <i>Dunaliella tertiolecta</i> - Exponential growth phase	72 hours
	Acute EC50 2320 µg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 93 ppm Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic NOEC 0.63 mg/l Fresh water	Daphnia - <i>Daphnia Magna</i>	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - <i>Micropterus salmoides</i>	28 days
	Acute EC50 9200 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	48 hours
Anti-FITC-AP (Dako Omnis) Polyoxyethylene octyl phenyl ether Sodium azide	Acute EC50 4.2 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
	Acute LC50 5.85 mg/l Fresh water	Crustaceans - <i>Ceriodaphnia rigaudi</i> - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Chronic NOEC 0.004 mg/l Fresh water	Fish - <i>Gambusia holbrooki</i>	28 days
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	Acute EC50 9200 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
	Acute EC50 6.4 mg/l Fresh water	Crustaceans - <i>Simocephalus serrulatus</i> - Larvae	48 hours
	Acute EC50 4.2 mg/l Fresh water	Daphnia - <i>Daphnia pulex</i> - Larvae	48 hours
	Acute LC50 0.68 mg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Chronic NOEC 5600 µg/l Marine water	Algae - <i>Macrocystis pyrifera</i>	96 hours
	Acute EC50 14.4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours

Section 12. Ecological information

Magnesium chloride	Acute EC50 7100000 µg/l Fresh water	Fish - <i>Lepomis macrochirus</i>	96 hours
	Acute LC50 >100000 µg/l Marine water	Crustaceans - <i>Crangon crangon</i> - Adult	48 hours
	Chronic NOEC 1500 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Fish - <i>Oncorhynchus mykiss</i> - Embryo	30 days
	Acute EC50 >100 mg/l Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours
	Acute EC50 180000 µg/l Fresh water	Crustaceans - <i>Eudiaptomus padanus ssp. padanus</i> - Adult	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - <i>Lemna aequinoctialis</i>	96 hours
	Acute LC50 32000 µg/l Fresh water	Daphnia - <i>Daphnia hyalina</i> - Adult	48 hours
	Acute LC50 2120 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
Acute NOEC 100 mg/l Fresh water	Algae - <i>Desmodesmus subspicatus</i>	72 hours	
Chronic NOEC 0.1 mg/l Fresh water	Fish - <i>Cyprinus carpio</i>	35 days	

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
CISH Endogenous Enzyme Block (Dako Omnis) hydrogen peroxide	-	-	Readily
Anti-FITC-AP (Dako Omnis) Polyoxyethylene octyl phenyl ether	-	-	Readily

12.3 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) Polyoxyethylene octyl phenyl ether	4.86	-	High
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	-1.01	0.79	Low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

Additional information

DOT Classification : **Reportable quantity** 17647.1 lbs / 8011.8 kg. Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

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

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

U.S. Federal regulations : **TSCA 8(a) PAIR:** Polyoxyethylene octyl phenyl ether
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
Clean Water Act (CWA) 307: Zinc chloride
Clean Water Act (CWA) 311: Disodium hydrogenorthophosphate; Zinc chloride

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Section 15. Regulatory information

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
CISH Endogenous Enzyme Block (Dako Omnis)						
hydrogen peroxide	<5	Yes.	1000	106.1	1000	106.1
Sodium azide	≤0.19	Yes.	500	-	1000	-
Anti-FITC-AP (Dako Omnis)						
Sodium azide	≤0.12	Yes.	500	-	1000	-

SARA 304 RQ : 100000 lbs / 45400 kg

SARA 311/312

Classification : CISH Endogenous Enzyme Block (Dako Omnis) Not applicable.
Anti-FITC-AP (Dako Omnis) Not applicable.
BCIP-NBT Substrate (Dako Omnis) CARCINOGENICITY - Category 1B
TOXIC TO REPRODUCTION - Category 1B

Composition/information on ingredients

Name	%	Classification
CISH Endogenous Enzyme Block (Dako Omnis)		
hydrogen peroxide	<5	OXIDIZING LIQUIDS - Category 1 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1A SERIOUS EYE DAMAGE - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 HNOC - Corrosive to digestive tract [severe]
BCIP-NBT Substrate (Dako Omnis)		
N,N-Dimethylformamide	≤3	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	68-12-2	≤3
Supplier notification	BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	68-12-2	≤3

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

State regulations

Section 15. Regulatory information

- Massachusetts** : None of the components are listed.
- New York** : None of the components are listed.
- New Jersey** : The following components are listed: HYDROGEN PEROXIDE;
DIMETHYLFORMAMIDE
- Pennsylvania** : None of the components are listed.
- California Prop. 65**

⚠ WARNING: This product can expose you to N,N-Dimethylformamide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
BCIP-NBT Substrate (Dako Omnis) N,N-Dimethylformamide	-	-

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.
- Canada** : Not determined.
- China** : Not determined.
- Japan** : **Japan inventory (CSCL):** Not determined.
Japan inventory (ISHL): Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.
- Republic of Korea** : Not determined.
- Taiwan** : All components are listed or exempted.
- Thailand** : Not determined.
- Turkey** : Not determined.
- United States** : All components are active or exempted.
- Viet Nam** : Not determined.

Section 16. Other information

[Procedure used to derive the classification](#)

Classification	Justification
BCIP-NBT Substrate (Dako Omnis) CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION - Category 1B AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method Calculation method Calculation method

[History](#)

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

Date of previous issue : 10/20/2023

Version : 6

Key to abbreviations :

- 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
- UN = United Nations

☑ Indicates information that has changed from previously issued version.

[Notice to reader](#)

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