

SAFETY DATA SHEET

BioOcean[®] Human Apolipoprotein E/Apo E ELISA Kit

Section 1. Identification

GHS product identifier Code: BioOcean® Human Apolipoprotein E/Apo E ELISA Kit, EK1218 Other means of identification: Not available Trade name: Human Apolipoprotein E/Apo E ELISA Kit Supplier/Manufacturer 3550 Lexington Ave, Suite 203, Shoreview, Minnesota 55126 In case of emergency: Bio-Ocean: 1-800-852-7601

Section 2. Hazards identification

OSHA/HCS status:	BioOcean® anti-Human Apo E detect antibody(100X)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for
	BioOcean [®] Human Apo E Standard (lyophilized)	employees and other users of this product. While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
	BioOcean [®] Stop Solution	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture:	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not classified.
	BioOcean [®] Human Apo E Standard (lyophilized)	Not classified.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate	Not classified. Not classified.
	Reagent BioOcean® Stop Solution	Not classified.
GHS label elements		
Signal word	BioOcean® anti-Human Apo E detect antibody(100X)	No signal word.
	BioOcean [®] Human Apo E Standard (lyophilized)	No signal word.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate	No signal word. No signal word.
	Reagent BioOcean [®] Stop Solution	No signal word.
Hazard statements	BioOcean® anti-Human Apo E detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean [®] Human Apo E Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	No known significant effects or critical hazards. No known significant effects or critical hazards.
Precautionary statements General	BioOcean® anti-Human Apo E detect antibody(100X)	Not applicable.
	BioOcean® Human Apo E Standard (Iyophilized)	Not applicable.



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	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean [®] Stop Solution	Not applicable.
Prevention	BioOcean [®] anti-Human Apo E detect	Not applicable.
	antibody(100X) BioOcean® Human Apo E Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay,	Not applicable.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean [®] Stop Solution	Not applicable.
Response	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not applicable.
	BioOcean [®] Human Apo E Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean [®] Stop Solution	Not applicable.
Storage	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not applicable.
	BioOcean [®] Human Apo E Standard (lyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean [®] Stop Solution	Not applicable.
Disposal	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not applicable.
	BioOcean [®] Human Apo E Standard (Iyophilized)	Not applicable.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not applicable.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not applicable.
	BioOcean [®] Stop Solution	Not applicable.
Supplemental label elements	BioOcean [®] anti-Human Apo E detect antibody(100X)	None known.
	BioOcean [®] Human Apo E Standard (lyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	None known.
	BioOcean [®] Stop Solution	None known.
Hazards not otherwise classified	BioOcean® anti-Human Apo E detect antibody(100X)	None known.
	BioOcean [®] Human Apo E Standard (Iyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	None known.
	BioOcean [®] Stop Solution	None known.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture		
Ingredient name	%	CAS number
BioOcean [®] Human Apo E Standard	99.9-100	-

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid m

Skin contact

Ingestion

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for breathing. Get medical attention if symptoms occur.

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

Flush contaminated skin with plenty of water. Remove contaminated

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

Flush contaminated skin with plenty of water. Remove contaminated

Flush contaminated skin with plenty of water. Remove contaminated

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

Wash out mouth with water. Remove victim to fresh air and keep at

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

Wash out mouth with water. Remove victim to fresh air and keep at

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No known significant effects or critical hazards.

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Section 4. First aid	measures	
Description of necessar	ry first aid measures	
Eye contact	BioOcean [®] anti-Human Apo E detect antibody(100X)	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.
	BioOcean [®] Human Apo E Standard (lyophilized)	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.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	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.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	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.
	BioOcean [®] Stop Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	BioOcean® anti-Human Apo E detect antibody(100X)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	BioOcean [®] Human Apo E Standard (Iyophilized)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate	Remove victim to fresh air and keep at rest in a position comfortable

avidin-HRP (100x) and Substrate Reagent BioOcean[®] Stop Solution

BioOcean[®] anti-Human Apo E detect antibody(100X) BioOcean® Human Apo E Standard (lyophilized)

> BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean[®] Stop Solution

BioOcean® anti-Human Apo E detect antibody(100X)

BioOcean® Human Apo E Standard (lyophilized)

BioOcean® PBS Buffer with Tween 20 (Assav. Diluent or Washing buffer)

BioOcean® Streptavidin-HRP (100x) and Substrate Reagent

BioOcean[®] Stop Solution

medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Most important symptoms/effects, acute and delayed Potential acute health effects BioOcean[®] anti-Human Apo E detect No known significant effects or critical hazards. antibody(100X) BioOcean® Human Apo E Standard (lyophilized) No known significant effects or critical hazards. BioOcean® PBS Buffer with Tween 20 (Assay, No known significant effects or critical hazards. Diluent or Washing buffer)

Inhalation

Eye contact

BioOcean[®] anti-Human Apo E detect antibody(100X)

BioOcean[®] Streptavidin-HRP (100x) and Substrate

No known significant effects or critical hazards BioOcean® Human Apo E Standard (lyophilized) No known significant effects or critical hazards.

Bio-Ocean LLC, 3550 Lexington Ave, Suite 203, Shoreview, Minnesota 55126 Phone: 1-800-852-7601 Fax: 1-844-697-5634 E-mail: info@bioocean.com

Reagent

BioOcean[®] Stop Solution



	BioOcean [®] PBS Buffer with Tween 20 (Assay,	A BETTER APPROACH FOR BIOLOGICAL RESEARCH No known significant effects or critical hazards.
	Diluent or Washing buffer)	No known significant effects of childa hazarus.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean [®] Stop Solution	No known significant effects or critical hazards.
Skin contact	BioOcean [®] anti-Human Apo E detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean [®] Human Apo E Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No known significant effects or critical hazards.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean [®] Stop Solution	No known significant effects or critical hazards.
Ingestion	BioOcean® anti-Human Apo E detect antibody(100X)	No known significant effects or critical hazards.
	BioOcean [®] Human Apo E Standard (lyophilized)	No known significant effects or critical hazards.
	BioOcean® PBS Buffer with Tween 20 (Assay,	No known significant effects or critical hazards.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No known significant effects or critical hazards.
	BioOcean [®] Stop Solution	No known significant effects or critical hazards.
Over-exposure signs/symptoms		
Eye contact	BioOcean® anti-Human Apo E detect antibody(100X)	No specific data.
	BioOcean [®] Human Apo E Standard (lyophilized)	No specific data.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	BioOcean [®] Stop Solution	No specific data.
Inhalation	BioOcean [®] anti-Human Apo E detect antibody(100X)	No specific data.
	BioOcean® Human Apo E Standard (lyophilized)	No specific data.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	BioOcean [®] Stop Solution	No specific data.
Skin contact	BioOcean [®] anti-Human Apo E detect antibody(100X)	No specific data.
	BioOcean® Human Apo E Standard (lyophilized)	No specific data.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	BioOcean [®] Stop Solution	No specific data.
Ingestion	BioOcean [®] anti-Human Apo E detect antibody(100X)	No specific data.
	BioOcean [®] Human Apo E Standard (lyophilized)	No specific data.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	BioOcean [®] Stop Solution	No specific data.
Indication of immediate medical	attention and special treatment needed	if necessary see toxicological information (Se

Indication of immediate medical attention and special treatment needed, if necessary, see toxicological information (Section 11)

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.

Section 5. Fire-fighting measures

Extinguishing media

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Suitable extinguishing media	

BioOcean® anti-Human Apo E detect antibody(100X) BioOcean® Human Apo E Standard (Iyophilized)

Use an extinguishing agent suitable for the surrounding fire.

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	BioOcean [®] PBS Buffer with Tween 20 (Assay,	A BETTER APPROACH FOR BIOLOGICAL RESEARCH Use an extinguishing agent suitable for the surrounding fire.
	Diluent or Washing buffer)	
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Use an extinguishing agent suitable for the surrounding fire.
	BioOcean [®] Stop Solution	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	BioOcean [®] anti-Human Apo E detect antibody(100X)	None known.
	BioOcean [®] Human Apo E Standard (Iyophilized)	None known.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	None known.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate	None known.
	Reagent BioOcean® Stop Solution	None known.
Specific hazards arising from the chemical	BioOcean® anti-Human Apo E detect antibody(100X)	In a fire or if heated, a pressure increase will occur and the container may burst.
	BioOcean [®] Human Apo E Standard (lyophilized)	In a fire or if heated, a pressure increase will occur and the container may burst.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	In a fire or if heated, a pressure increase will occur and the container may burst.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate	In a fire or if heated, a pressure increase will occur and the container
	Reagent BioOcean [®] Stop Solution	may burst. In a fire or if heated, a pressure increase will occur and the container
		may burst.
Hazardous thermal decomposition products	BioOcean [®] anti-Human Apo E detect antibody(100X)	No specific data.
	BioOcean [®] Human Apo E Standard (lyophilized)	No specific data.
	BioOcean [®] PBS Buffer with Tween 20 (Assay,	No specific data.
	Diluent or Washing buffer) BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	BioOcean [®] Stop Solution	No specific data.
Special protective actions for	BioOcean® Stop Solution BioOcean® anti-Human Apo E detect antibody(100X)	No specific data. 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
Special protective actions for fire-fighters	BioOcean [®] anti-Human Apo E detect	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving
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	BioOcean® anti-Human Apo E detect antibody(100X) BioOcean® Human Apo E Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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.
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fire-fighters Special protective equipment for	BioOcean® anti-Human Apo E detect antibody(100X) BioOcean® Human Apo E Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human Apo E detect	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. 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. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
fire-fighters Special protective equipment for	BioOcean® anti-Human Apo E detect antibody(100X) BioOcean® Human Apo E Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution BioOcean® anti-Human Apo E detect antibody(100X) BioOcean® Human Apo E Standard	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece
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Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel 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.

For emergency responders

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".



Environmental precautions	A BETTER APPROACH FOR BIOLOGICAL RESEARCH 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).
Methods and materials for containm	nent and cleaning up
Small spill	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.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling		
Protective measures	BioOcean® anti-Human Apo E detect antibody(100X)	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
	BioOcean® Human Apo E Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	 Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	BioOcean® anti-Human Apo E detect antibody(100X)	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.
	BioOcean® Human Apo E Standard (lyophilized)	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.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	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.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	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.
	BioOcean [®] Stop Solution	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	BioOcean® anti-Human Apo E detect antibody(100X)	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 containiation. Store in accordance with local regulations. Store in
	BioOcean® Human Apo E Standard (lyophilized)	original container protected from direct sunlight in a dry, 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 contaimers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	original container protected from direct sunlight in a dry, 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.



BioOcean[®] Streptavidin-HRP (100x) and Substrate Reagent

BioOcean® Stop Solution

A BETTER APPROACH FOR BIOLOGICAL RESEARCH 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. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, 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. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, 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. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry,

Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits None

None			

Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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.
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	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Physical state	BioOcean [®] anti-Human Apo E detect antibody(100X)	Liquid.
	BioOcean® Human Apo E Standard (Iyophilized)	Solid
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Liquid.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Liquid.
	BioOcean [®] Stop Solution	Liquid.
Color	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.



		A BETTER APPROACH
	BioOcean® Human Apo E Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available. Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Odor	BioOcean [®] anti-Human Apo E detect	Not available.
	BioOcean® Human Apo E Standard	Not available.
	(lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluont or Washing buffer)	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Flash point	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean® Human Apo E Standard (lyophilized)	Not available.
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Auto-ignition temperature	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean® Human Apo E Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available. Not available.
	Diluent or Washing buffer) BioOcean [®] Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
Flammable limits	BioOcean [®] anti-Human Apo E detect	Not available.
	antibody(100X) BioOcean [®] Human Apo E Standard	Not available.
	(lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluont or Washing buffer)	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Molecular weight	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean [®] Human Apo E Standard (lyophilized)	Not available.
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Molecular formula	BioOcean® anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean® Human Apo E Standard (lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay,	Not available. Not available.
	Diluent or Washing buffer) BioOcean [®] Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean® Stop Solution	Not available.
рН	BioOcean [®] anti-Human Apo E detect	7.0-7.2
M.1	antibody(100X) BioOcean® Human Apo E Standard	Not available
	(Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Divert of Weaking by ffor)	7.0-7.2
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	7.0-7.2
	BioOcean [®] Stop Solution	1.1-1.3

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		A BETTER APPROACH FOR BIOLOGICAL RE
Boiling/condensation point	BioOcean® anti-Human Apo E detect	Not available.
	antibody(100X) BioOcean [®] Human Apo E Standard (hophiliad)	Not available.
	(lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluont or Waching buffer)	Not available.
	Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and	Not available.
	Substrate Reagent BioOcean [®] Stop Solution	Not available.
Melting/freezing point	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean [®] Human Apo E Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Relative density	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean® Human Apo E Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Vapor pressure	BioOcean [®] anti-Human Apo E detect	Not available.
	antibody(100X) BioOcean® Human Apo E Standard (hophiliad)	Not available.
	(lyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Vapor density	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean® Human Apo E Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Volatility	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean® Human Apo E Standard (lyophilized)	Not available.
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Evaporation rate	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean® Human Apo E Standard (Iyophilized)	Not available.
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Viscosity	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean® Human Apo E Standard (lyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean® Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	Substrate hougent	

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	BioOcean [®] Stop Solution	A BETTER APPROACH FOR BIOLOGICAL RE Not available.
Solubility	BioOcean [®] anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean [®] Human Apo E Standard (Iyophilized)	Not available.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.
Physical/chemical properties comments	BioOcean® anti-Human Apo E detect antibody(100X)	Not available.
	BioOcean [®] Human Apo E Standard (lyophilized)	Not available.
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Not available.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Not available.
	BioOcean [®] Stop Solution	Not available.

Section 10. Stability and reactivity

Reactivity	BioOcean® anti-Human Apo E detect antibody(100X) BioOcean® Human Apo E Standard (Iyophilized) BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Reagent BioOcean® Stop Solution	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	BioOcean [®] anti-Human Apo E detect antibody(100X)	The product is stable.
	BioOcean [®] Human Apo E Standard (Iyophilized)	The product is stable.
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	The product is stable.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	The product is stable.
	BioOcean [®] Stop Solution	The product is stable.
Possibility of hazardous reactions	BioOcean [®] anti-Human Apo E detect antibody(100X)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	BioOcean® Human Apo E Standard (lyophilized)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous
	BioOcean [®] Stop Solution	reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	BioOcean [®] anti-Human Apo E detect antibody(100X)	No specific data.
	BioOcean [®] Human Apo E Standard (Iyophilized)	No specific data.
	BioOcean [®] PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	No specific data.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	No specific data.
	BioOcean [®] Stop Solution	No specific data.
Incompatible materials	BioOcean [®] anti-Human Apo E detect antibody(100X)	No specific data.

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BioOcean® Human Apo E Standard	No specific data.
(lyophilized)	
BioOcean [®] PBS Buffer with Tween 20 (Assay,	No specific data.
Diluent or Washing buffer)	
BioOcean [®] Streptavidin-HRP (100x) and	No specific data.
Substrate Reagent	
BioOcean [®] Stop Solution	No specific data.

No	specific	data.
No	specific	data.

ecific data

Hazardous decomposition products	BioOcean® anti-Human Apo E detect antibody(100X)	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	BioOcean® Human Apo E Standard (lyophilized)	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Washing buffer)	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	BioOcean [®] Streptavidin-HRP (100x) and Substrate Reagent	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	BioOcean [®] Stop Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects Acute toxicity: Not available. Irritation/Corrosion: Not available. Sensitization: Not available. Mutagenicity: Not available. Carcinogenicity: Not available. Reproductive toxicity: Not available. Teratogenicity: Not available. Specific target organ toxicity (single exposure): Not available. Specific target organ toxicity (repeated exposure): Not available. Aspiration hazard: Not available. Information on the likely routes of exposure: Not available.

Potential acute health effects

Eye contact: Not available. Inhalation: Not available. Skin contact: Not available. Ingestion: Not available.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Not available. Inhalation: Not available. Skin contact: Not available. Ingestion: Not available.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure: Not available. Potential immediate effects: Not available. Potential delayed effects: Not available. Long term exposure: Not available. Potential immediate effects: Not available. Potential delayed effects: Not available. Potential chronic health effects: General: Not available. Carcinogenicity: Not available. Mutagenicity: Not available.



Teratogenicity: Not available. Developmental effects: Not available. Fertility effects: Not available. Numerical measures of toxicity Acute toxicity estimates: Not available. Interactive effects: Not available. Other information: Not available. Section 12. Ecological information Toxicity: Not available. Persistence and degradability: Not available. Bioaccumulative potential: Not available. Mobility in soil Soil/water partition: coefficient (Koc) BioOcean® anti-Human Apo E detect antibody(100X) Not available. BioOcean[®] Human Apo E Standard (lyophilized) Not available BioOcean® PBS Buffer with Tween 20 (Assay, Diluent or Not available Washing buffer) BioOcean® Streptavidin-HRP (100x) and Substrate Not available. Reagent Not available BioOcean[®] Stop Solution

Mobility: 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 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	ΙΑΤΑ
UN number	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
UN proper shipping name	Not available.	Not available.	Not available.	Not available.	Not available.	Not available.
Packing group	-	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-	-

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Section 15. Regulatory information

U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): Not determined. Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Not listed Clean Air Act Section 602 Class I Substances: Not listed Clean Air Act Section 602 Class II Substances: Not listed DEA List I Chemicals (Precursor Chemicals): Not listed DEA List II Chemicals (Essential Chemicals): Not listed SARA 302/304 Composition/information on ingredients

Nama	%	EHS	SARA 302 TPQ		SARA 304 R	SARA 304 RQ	
Name			(lbs)	(gallons)	(lbs)	(gallons)	
BioOcean [®] Substrate Reagent with hydrogen peroxide	0-1	Yes.	1000	106.1	1000	106.1	

SARA 304 RQ: 68292000 lbs / 31004568 kg

SARA 311/312 Classification: Not applicable.

Composition/information on ingredients: No products were found.

State regulations



Massachusetts: None of the components are listed. New York: None of the components are listed. New Jersey: None of the components are listed. Pennsylvania: None of the components are listed.

Section 15. Regulatory information International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol (Annexes A, B, C, E) Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Inform Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Canada BioOcean[®] anti-Human Apo E detect Not controlled under WHMIS (Canada). WHMIS (Canada) antibodv(100X) BioOcean[®] Human Apo E Standard Not controlled under WHMIS (Canada). (lyophilized) BioOcean[®] PBS Buffer with Tween 20 (Assay, Not controlled under WHMIS (Canada). Diluent or Washing buffer) BioOcean[®] Streptavidin-HRP (100x) and Not controlled under WHMIS (Canada). Substrate Reagent BioOcean[®] Stop Solution Not controlled under WHMIS (Canada). Canadian lists Canadian NPRI: None of the components are listed.

Canadian lists Canadian NPRI: None of the components are listed CEPA Toxic substances: None of the components are listed Canada inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. National Fire Protection Association (U.S.A.)



History Date of issue/Date of revision: 6/11/2016 Date of previous issue: No previous validation. Version: 1 Section 16. Other information 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 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.